Monday July 21 1980



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GENERAL

UN

# Silver medals for **Britons**

Philip Hubble and the women's medly relay team won silver medals for Britain in Olympic swimming events on the Mos-cow Games' first day of com-petition. But they said they were sorry they had collected their awards without the Union Jack flying.

East German Barbara Kraus was first to break a world record in the 100 metres women's free-style swim.

Yachtsmen from six Western nations, refused to fly their national flags in protest at the Soviet invasion of Afghanistan. And seven Western airlines protested at the mid-air diversion of flights into Moscow during the opening ceremony. Page

### Arms debate

An unprecedented number of resolutions opposing nuclear weapons have been submitted to this year's Labour Party conference, Back Page

### Plotters executed

Five men were executed by firing squad in Tehran after being found guilty of plotting against the Government. In Paris, five men were charged with the attempted murder of former Iranian Premier Shapur Bakhtiar. Page 2

### Libyan jet crash Italy said the aircraft which

crashed into a Calabrian mountain on Friday was a Sovietbuilt MiG 23, bearing Libyan markings. The dead pilot earlied no identification.

### New premier

Lebanon President Elias Sarkis appointed Mr. Takieddine Solh. 71, as Prime Minister. Mr. Solh said he would begin talks today on the make-up of his cabinet.

### M-crash death

Nine year old boy died and 16 people were injured when a coach carrying day trippers collided with the central reserva- and Dutch guilder. The Nethertion on the M62 in West lands bank rate was cut to 9 per Yorksh**ire.** 

### Island freedom

Britain and France are to grant independence to the New Hebrides on July 20 as planned, in spite of the rebellion on the island of Espiritu Santo. Page 2

### Soldier shot dead

Off-duty soldier Christopher Watson, home on compassionate leave to visit his wife who had just lost a baby, was shot dead by gunmen in a Londonderry

### **President flees**

Bolivia's coup leaders moved to crush any resistance after ousted President Lidia Gueller took asylum in the Vatican mission in La Paz.

### Watson wins

Tom Watson won the 109th British Open Golf Champion-ship at Muirfield for the third time. Fellow American Lee Trevino was second, four strokes behind, Page 9

### Cover price

Company wants to build a communat nuclear bomb shelter under a Buckinghamshire farm and to offer places at £5,000 a

### Briefly . . .

Premium Bond prize winners are: £100,000—7MK 325553; £50,000—14YZ 554468, and £25,000—6TW 888814. Netherlands' Joop Zoetemelk won the 67th Tour de France.

### \_ CONTENTS -

Editorial comment: Com- Local rates: The Gordion Lombard: Samuel Brittan

babwe after the General 10 The Week in the Courts: Justinian 8 Finance Bill: Main amendon exchange rates ..... 8 ments ..... 4 Inflation: Hopeful signs 10 Survey: Japan (Inset)

The charts show the two constraints on European Monetary System exchange rates. The upper grid, based on the weakest currency in the system, defines the cross rates from which no currency (except the live) may move more than 2½ per cent. The lower chart gives each currency's divergence from its "central rate" against the European Currency Unit (ECU), isself a basket of Eugopean currencies.

For latest Share Index 'phone 01-246 8026

# Telephone supply monopoly to be curbed

BY JASON CRISP

THE POST OFFICE is to lose

which is to loin the EEC in six months' time, faces stagnation and a rising level of unemployment according to a report by the Paris-based OECD. Greek much of its telecommunications monopoly although private companies will still be prevented from competing with the basic network. It will also be encouraged to compete in the supply of equipment and new services economic policy is also criticised and may enter joint-ventures with private companies. in another report by the Inter-national Monetary Fund. Back

Warning

on state

of Greek

economy

dant. Page 4

• COMMON MARKET chemical

companies have accused their U.S. rivals of increasing exports

of cheap products to beat anti-

cipated European anti-dumping

• NUCLEAR POWER station

construction works due to start

next month at Heysham and Torness are now expected to be

delayed until next year. Page 4

• TRADE UNION and Labour Party leaders will today try to

agree on a joint economic

strategy based on reflation and

MEMOREX CORPORATION.

the U.S. computer equipment

maker, reported a loss of \$21.7m

in the second quarter against

a previous profit of \$10.6m. For the first half, its loss was \$20.6m

despite increased sales. Page 16

System, but remained

ing which saw only minor

cent on Friday from 9.5 per

cent and there was also some

reduction in Belgium's discount

rate in the near future although

the Belgian franc was quite

firm below the Danish krone but

ahead of the D-mark. The

weakest member of the system was again the Italian lira,

although poor balance of pay-

ments figures announced during

EMS JULY 18,1980

the week had little influence.

speculation about a possible

selective import controls.

Page 5

regulations. Back Page

The biggest initial relaxation will end the Post Office's tradi- BL CARS has announced that tional monopoly to supply and 6.000 workers making Rover and maintain all telephone equip-TR7 sports cars are to go on short-time working, possibly until Christmas, Back Page ment attached to the public network, although it will still provide the first telephone in each household or business · A SLIGHT improvement in

place.
Sir Keith Joseph, Secretary of State for Industry, is expected today to announce the the level of consumer optimism is suggested by the latest Financial Times survey of consumer confidence, which has risen to proposals for legislation to be introduced in autumn, splitting the Post Office into posts and minus 27 per cent. Page 4 • ANOTHER 200 workers at Chesterfield's Glass Bulbs comtelecommunications. The pro-posals will allow private company are to lose their jobs In panies to compete with the Post January 100 were made redun-Office to supply telephones, private exchanges and other

elecommunications equipment, British telecommunications manufacturers are likely to welcome proposals for the Department of Industry to license the telecommunications equipment which may be sold, as it will give them time to catch up with foreign competitors.

Restrictions are planned to swamping the market or allow- providing extra services over the in the market.

connecting poor network by equipment to it

sell telephone equipment will have it licensed by the Dol. The major considerations will be: ability to service and maintain installed equipment. the amount of manufacture or assembly to be done in the UK. and-for foreign companiesthe accessibility of their home telecommunications market to British manufacturers.

This is likely to mean U.S. and Canadian companies would be eligible, because of the industrialised North American market, but the Japanese would not.

Plessey, the traditional main creases rapidly suppliers to the Post Office, are believed to have been particu-larly concerned that a sudden lifting of the monopoly would open a floodgate to imports. particularly from the Far East. Suppliers will also have to have equipment approved by a new technical standards body. possibly part of the British Standards Institute. At present the Post Office itself approves

The Government is also expected to allow a small initial prevent foreign manufacturers relaxation of the monopoly in

equipment.

ing companies to damage the network such as data-processing services, facsimile transmission and data-bank services. Here Any manufacturer wishing to the Department of Industry is moving cautiously, as it wants to ensure the Post Office does not lose to private companies "creaming off" the profitable parts of the network.

On the other hand, if companies want to provide a new service which the Post Office cannot offer, they are more likely to meet with departmental approval.

At first any relaxation in these "value added services" would have little significance, but it is likely to become a major consideration later in the GEC. Standard Telephones decade as the amount of in-and Cables (a UK subsidiary of formation transmitted electhe U.S.-owned ITT) and tronically between offices in-

The Government is also expected to retain the discretion to allow large companies to set up microwave links or even to use satellite communication. Again the criterion is whether it will damage the Post Office's existing telecommuni-

cations business.

The Telecommunications Users Association yesterday called on Sir Keith Joseph to float part of the telecommunications side of the Post Office on the stock market and to allow it to raise loan capital freely

# Government favours sale of BNOC bonds

BY MARTIN DICKSON, ENERGY CORRESPONDENT

against most other currencies A SALE of bonds rather than fixed interest. They could be solved by a bond issue. The ernment's preferred method of offices strongest in a quiet week's tradinvolving the private investor in the British National Oil Corporation (BNOC), although sale of equity should provide the changes. The next strongest currencies were the Irish punt there remains some possibility of a minor equity sale.

> the state-owned corporation are about to be debated by the Cabinet's main economic com- pletely in state hands. mittee; and an announcement could be made before the parliamentary recesses in early

thrust of the Government's too virulent a political row. plan is expected to be a sale The BNOC management has of revenue bonds which could itself made clear that it is tötal £500m or more.

perity, rather than bearing owned entity, with privatisation these profits.

Mr. David Howell, the Energy Secretary, had argued that a

main vehicle for privatisation. This would mean splitting of Details of the Government's BNOC into an exploration and ong-awaited plan to restructure production company, involving private capital, and an oil trading undertaking retained com-

There were indications in Whitehall last night that an equity offer was not completely ruled out; but the Government Although no final decisions seems to feel that a major sale have yet been taken, the main of BNOC shares would provoke

strongly against being split in These bonds would rise in two, and would prefer to revalue in line with BNOC's pros- main a fully integrated state-

opposed a sale of shares, and pledged itself to renationalisa-

However, the Government could face anger from its own Right wing if it limits privatisation to a sale of bonds—a course of action which would also re move the need to split BNOC formally into two. Right-wing pressure is one of the factors which is keeping alive the possibility of an equity sale.

BNOC is on its way to become ing Britain's most profitable nationalised industry. Its pretax profit of £75m in 1979 is expected to rise to over £1bn annually by the mid-1980s. Although a sale of shares would raise a lump sum for the Treasury, the Exchequer would thereby lose a large slice of

# More strikes start in Poland

BY CHRISTOPHER BOBINSKI IN WARSAW

NEW STRIKES for increased nearby Krasnik, in a modern pay broke out in Poland at the ball-bearing plant.

Weekend. Employees stopped But the public transport. work at the Huta Stalowa Wola delivery-men factory in the south-east of the country, according to reports reaching Warsaw.

The factory employs more than 10,000 men and produces pages swept through small-construction machinery in close scale industries and the service co-operation with International Harvester, the U.S. machinery hospitals in Lublin. Troops were manufacturer. Another strike brought in to make essential was reported on Saturday at deliveries.

Lublin, inhabited by about 300,000 people, is about 100 kilometres from the Soviet delivery-men and railway workers strike which paralysed railway

The situation led the authorithe eastern town of Lublin on ties to warn the population of Friday ended by Saturday night. this town, of Soviet sensibilities Last week a wave of stopon the eve of the Olympic

A Communist Party Poltiburo statement at the weekend published only in Lublin, said the Continued on Back Page

# Plea for aid to steel foundries

sector, including nurses at some

BY ARTHUR SMITH, MIDLANDS CORRESPONDENT

THE UK steel foundry industry is calling for aid from the Gov-ernment and the European Commission to help fund redundancies and rationalisation.

Up to 6,000 of the 16,000 jobs in the industry may go by the mid-1980s, the Economic Development Committee for the foundry sector says in a letter to be sent to Sir Keith Joseph, the Industry Secretary.

The committee stresses that healthy steel foundry sector is basic to the rest of British manufacturing industry. "Mar-ket forces" could seriously damage the industry's capability to meet demand.

In addition to the 4,000 jobs lost in the last two years, another 6,000 might have to go.

Production might have to be

cut by 50,000 tonnes from the

present level of up to 200,000

tonnes a year.

"This would mean not only serious rundown for this basic industry itself, but a serious threat for the future to all those engineering and allied sectors to whom its service is vital," the committee said.

"It cannot be over-emphasised that the rest of British manufacturing industry will continue to need a steel castings facility with adequate capacity and a base healthy another to produce efficients." enough to produce efficiently now but also to expand from when the demands of a recovering economy call for expan-

would "use desperate measures real future."

munity.

Foundries, already in trouble orderly reconstruction was "the because of a shortage of orders, agonising process of bankto buy volume to the grave then probably inadequate even detriment of those more healthy to meet statutory social obligaparts of the industry with a tions, while the remainder of

"one of the major disincentives and financial terms."

to rationalisation is the cost of redundancy to companies already on the way to failure." Accordingly, a "compensa-tion fund" is recommended to which the Government would contribute and which might qualify for matching funds from the European Economic Com-

In a supporting document, the Steel Castings Research and trade association argues that "conventional restructuring is now beyond the resources of the industry. The alternative to the provi-

sion of funds to secure an ruptcy, with company funds the industry suffers perhaps The committee maintains that irreparable damage in human

# Du Cann supports MPs' pay move

By Elinor Goodman, Lobby Staff

The Government faces possible defeat in the Commons tonight over the future method of assessing MPs' pay.

Mr. Edward du Cann, the chairman of the Govern-ment's own backbenchers, has put his name to an amend-ment on the Government's motion on pay and pensions. If successful, it would mean that the principle of linking MPs' salarles to those of the Civil Service would be accepted.

This would make it much more difficult for the Government effectively to impose pay restraint on MPs again by asking them to make a personal sacrifice in the national

The amendment, which has heen signed by three other members of the 1922 executive and is therefore likely to he supported by other Tory MPs would also lead to an increase in members' pensions. The amendment has been

put down by Mr. Fred Willey, the chairman of the Parlia-mentary Labour Party, who has been working closely with Mr. du Cann on the whole question of MPs' pay and conditions. It is backed by a number of Shadow Cabinet Members.

The vote is theoretically free on both sides of the House but, in practice, the pressure will be on Tory MPs to fall in line. Given its sponsors, the amendment, if called, must stand a good chance of getting through. the question of their pay divides MPs in both parties. Ministers are expected to de-cide this morning how to

Tonight's vote is the final stage in the Government's long-drawn-out dilemma over MP's pay. Earlier this month, it was decided that MPs, together with senior civil servants, should be asked to accept smaller increases than those recommended by Lord Boyle's Top Salaries Review Bozrd

Despite some annoyance on the Conservative backbenches about the request to accept less than recommended for the second year running, the signs are that most are prepared to accept this reduction in the short term. But Mr. du Cann, and other members of the executive, have argued with Ministers that this situation must not be repeated.

# Prior may call for ballot on closed shops

closed agreements presently in Department of Employment. force in Britain.

present cover at least 5.2m end of the month or the workers in Britain, he sub-beginning of August, new jected to periodic review by closed shops could not be ballot is expected to be made in established without first being a draft code of practice which put to a ballot of the workthe Government intends to issue force, which would then have the to show at least 80 per continuous to the show at least 80 pe for consultation when the to show at least 80 per cent in Employment Bill becomes law, officials were keen to stress The code seems likely to

proposal. another code of practice, the agreement.

Government is likely to recomclosed shop proposal, Mr. David membership agreements. Basnett, general secretary of the General and Municipal Workers' Union, and a senior

At present there is understood to be no specific figure in the new code laying down the

TUC figure, said that it would "destablise" industrial rela-

tions and could only create

THE GOVERNMENT is con-frequency of the review of sidering making a recommenda-workforce support for existing tion that the principle of a closed shops, though the periods ballot on the establishment of of two or three years have been new closed shops be extended to under consideration by the

force in Britain.

Under the terms of the The recommendation that Employment Bill, which is existing closed shops, which at expected to become law at the

yesterday that there would be adopt similar terms, though no element of compulsion in the unlike the forthcoming Act it similar terms, though would not be legally enforce-The new notion, though, will able. It could be used, though, incense still further the trade in any industrial tribunal or unions, already angry at the dis- court proceedings which might closure at the weekend that in result from a closed shop

Employment Ministers see mend that the number of the proposals as doing nothing workers on a picket line be more than embodying the limited to six. highest standards already in In an early response to the force in the best union

The first public indication of the Government's thinking was given yesterday by Mr. James Prior. Employment Secretary, in the same television pro-gramme, Granada's "Union Power," in which he disclosed the proposals restricting the number of pickets. Continued on Back Page

# Switch to deposits hits bank results

BY MICHAEL LAFFERTY, BANKING CORRESPONDENT

change in bank customer habits. Customers have been showing greater awareness of interest-bearing deposit account Dalysts expected.

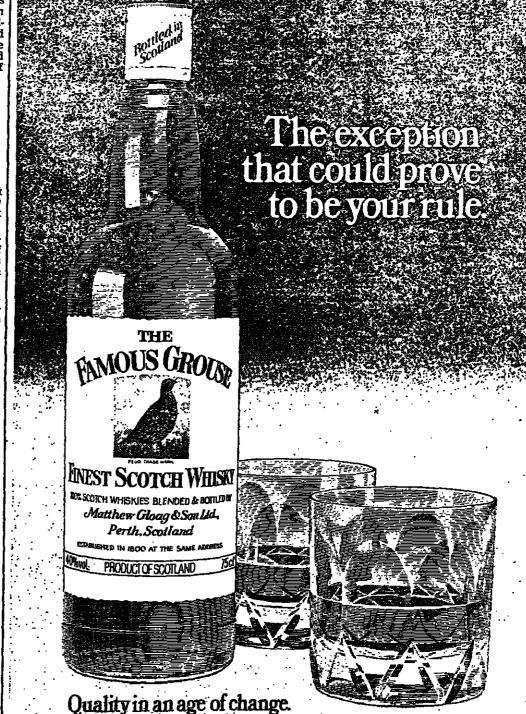
As a result, clearing banks have benefited less from higher as its results are concerned. interest rates than had been

expected initially. Lloyds Bank, first of the big four clearers to announce its 1980 interim results, said on Friday that it had experienced no growth in current account volume in the period, though

INTERIM RESULTS of all the Norman Jones, the bank's chief big clearing banks have been executive, said this was the hit by a sudden, unexpected main reason why results were substantially below analysts' expectations.

Two other clearing banks higher interest rates by placing confirmed that their experience substantially more money on is broadly in line with that of Lloyds, and one has said that many bankers and stock markets analysts still need to adjust their forecasts to take thi factor into account as far

The change in banking habits is confirmed by Bank of England figures for money-supply growth. These show that in the period between mid-November, 1979, and mid-June this year non - interest - bearing bank deposits by the UK private balances on seven-day account sector fell by £803m, or 5 per had increased significantly. Mr. cent seasonalyl adjusted.



Mr. Yassir Arafat

### **PLO** chief tours Games site

COMPETITIONS began yesterday i nthe 22nd Olympiad. But political considerations contimued to affect the atmosphere of the games as the Soviet authorities allowed Mr. Yassir Arafat, the leader of the Palestine Liberation Organisation, to be given a tour of the Olympic

The competition started in 14 of the 21 olympic sports, including swimming, where the boycott by U.S. athletes has undermined the competition, cycling, boxing, wrestling, weightlifting, hockey, shooting and basketball. competitions which started were modern pentathion, football, handball, gymnastics, rowing and volleyball.

The appearance of Mr. Arafat at the Olympic Village, however, indicated that although the Soviet authorities objected to the U.S. led boycott as political interference with sport, they may make further efforts to use the games for political purposes of their own.

Mr. Arafat, who enjoys strong Soviet support, was reportedly in Moscow to seek increased arms deliveries. His appearance at the Village. including the residential area. which is off-limits to all but specially cleared persons, was apparently indicated to demonstrate that the 1972 attack by Palestinian guerrillas in Munich in which 11 Israeli athletes died, did not reflect Palestinian objections to international sport. Israel is boycotting the Moscow Olympics.

The PLO never condemned the 1972 attack on the Olympic Village in Munich, which was carried out by the Black September group, an affiliated EEC FOREIGN MINISTERS MEET

# Discord over Mideast mission

BY JOHN WYLES IN BRUSSELS

sharp differences which may delay the formal launch of the Community's fact-finding mission to the Middle East to be led by M. Gaston Thorn, the Luxermbourg Foreign Minister and President of the Council of Ministers. The mission idea was adopted

by the EEC summit in Venice last month as a tailpiece to its stages. controversial declaration on the need for a comprehensive Middle East peace settlement. But it has proved more difficult than expected for the Nine to settle some basic questions on the substance and procedures of the Thorn mission and it is thought here that they may not be resolved before the middle of

The practical effects of fail-ing to finalise the mission's mandate tomorrow may not be very and West Germany are uneasy

BY ISHAN HIJAZI IN BEIRUT

PRESIDENT Elias Sarkis yesterday asked 71-year-old Takieddin Solb to form a new

Lebanese Cabinet to replace the

Government of the outgoing

Mr. Solh, a veteran politician

and one of the fathers of the

country's independence, in his

first statement after he was

given the task, called on all Lebanese to help deliver their

Mr. Sarkis had decided to

move full force on forming a

new Government in order to

check a serious deterioration in

the general situation following

the Christian fighting on July 7.

reported killed when the

Phalange party, Lebanon's prin-

cipal paramilitary organisation.

suppressed its main rival fac-

tion, the National Liberal Party

ex - president Camille

Mr. Solh. who headed a its en Government of national recon-ciliation in 1973 and 1974, said Syria.

The development generated

fears that Lebanon was on the

brink of another civil war.

Several hundred people were

country

political impasse.

from its present

Prime Minister, Dr. Selim al

try tomorrow to resolve some in any case be making any visits the top PLO leadership, includto the Middle East until after ing Mr. Yassir Arafat, the the end of Ramadan on August

> But Community Foreign, Ministers will have to make some progress at removing disagreements which emerged at official level last week if they are to avoid embarrassing the EEC's initiative in its earliest

> Diplomats here are reluctant to reveal details but it appears that the difficulties centre on the level at which contacts should be made with Middle East Governments, on how to maintain a balance in discussions with the area's hawks and doves in relation to Israel and on how to treat the Palestine Liberation Organisation (PLO). It is understood that Holland

he would begin his consultations

to form a new Cabinet today.

Informed political observers said President Sarkis had pre-

pared a list of the Cabinet

members he wanted. The list

reportedly includes representa-

tives from the various factions,

left and right, such as Walid

Jumblat, leader of the leftist

National Movement, deputy

Amin Gemayel from the Phalange Party and Dany Chamoun from the National

On Saturday leaders in the

National Movement informed

President Sarkis of their readi-

ness to join a Cabinet with the

Phalangists, provided the main

objective of the new govern-

ment would be to secure

after a visit to Damascus which generated speculations that

Syria was eager to help Presi-

dent Sarkis check the rising ten-

Observers say Damascus

wants to see the crisis in Leb-

anon frozen so Syria may devote its energies to combating the

Moslem Brotherhood inside

with President Nyerere over the

discussed the possibility of

mutually beneficial commercial paid.

BY OUR DAR ES SALAAM CORRESPONDENT

future of the company's seized over of Lonrho's 18 Tauzanian

It is understood Lord Sandys has leaked the text of letters

not only received reassurances he has sent to the Tanzania

from Dr. Nyerere about pay- Government, accussing it of

ment of compensation but the withholding the results of an

two, who are old friends, even audit by an independent com-

Lourho again developing what shareholders many of whom are an informed source called in Kenya, were to have been

assets in Tanzania, it was companies in June 1978.

The leaders took the step

Liberal Party

national entente.

sion in Lebazon.

Syria keen for Solh to succeed

**NEW PREMIER FOR LEBANON** 

EEC FOREIGN Ministers will significant because it would not about holding discussions with organisation's chairman, not least because of possible Israeli and U.S. disapproval.

It seems likely that M. Thorn advised by officials from a number of Community countries with particular expertise on the Arab-Israe!i problem. British Foreign Office is expected to be heavily repre-

As defined in Venice, the broad aim of the misssion is to establish "the position of the various parties with respect the principles" set out in the EEC declaration. The Nine hope that the contacts could pave the way for an effective European initiative, probably UN which would broaden the current Camp David talks into comprehensive Middle special assembly convenes.

President Sarkis

Syria, moreover, is currently

preoccupied with preparations

for setting up a stronger rela-

tionship with Moscow.

Persuading former President

followers in the same Cabinet

as the Phalangists may prove to

be the main problem facing the

LONRHO Chairman Lord Rowland, Lonrho's chief execu-Government press attacking Mr. Duncan Sandys has held talks tive, have been involved in a Rowland. One said he used

bitter dispute since the take-

In recent months Mr. Rowland

pany on the basis of which the

published commentaries in the assets

Not even Syria, a close ally of

designate.

uleiman Franjieh to have his

East peace negotiations. If their discussions become

prolonged, the Foreign Ministers will be pushed to complete a very crowded agenda which also embraces accession negotiations with Spain and Portugal, trade relations with the U.S. and Japan, the future of the EEC's anti-crisis measures for the steel industry, and the proposed regulations to implement the agreement reducing the UK's budget contributions.

Ministers must also prepare the Community's position for the special UN assembly starting on August 25 aimed at re-launching the North-South dialogue on the basis of global negotiations. Such are the complexities and the need for flexibility that the Commisssion is recommending a special meet-ing of the Council of Ministers in New York the day before the

Mr. Franjieh's, has been able to

convince him to back such a

President Sarkis was reported

to have already decided to

assign the three main portfolios

in the new Cabinet to three of

Victor Khoury for the Ministry

the President is a Maronite

Bey." Mr. Solh is a moderate

politician who is not a member

"every trick in the book" to

An official Tanzanian com-

munique on the talks, held last

Friday at Dr. Nyerere's private

beachside villa, said they were

cordial and constructive and "a

number of misunderstandings were clarified."

Last October the Tanzanian

Parliament passed a Bill legal-

frustrate meaningful talks on

Parliament a Moslem Shi'ite.

of Parliament.

compensation.

eldest son two years ago.

another candidate.

### Plan to limit bank holdings in W. Germany

By Kevin Done in Frankfurt

WEST GERMAN banks' farreaching equity holdings in German industry should be sub- FIVE leaders of the military stantially reduced according to the draft amendments for a new West German Banking Law produced by the Federal Finance Ministry.

Among changes, the Finance Ministry is suggesting that German banks should be forced to produce a consolidated balance sheet including all their foreign as well as domestic interests. This would allow the banking

authorities for the first time to make a more rigorous asse ment of the risks German banks are taking on the Euro-markets and in particular in lending to certain high-risk countries. At present German banks can

avoid domestic restrictions by conducting their Euro-market business through foreign subsidiaries in leading financial centres such as Luxembourg.

The changes recommended by the Finance Ministry study paper have been made as part of the preparation for a new Banking Law planned for debate during the next legislative period of the Bundestag, the West German lower House. The draft picks up and

Cabinet. The ex-President has been locked in a bloody feud strengthens several suggestions with the Phalange Party since the latter's militia murdered his the Gessler Commission which was set up to study possible reforms of the West Ger-Dany Chamoun, outgoing comman banking system in the wake of the crash of the mander of the National Liberal Party, may also be reluctant to join the new Cabinet, but the party would probably nominate Herstatt Bank in 1974.

It suggests that a bank's industrial holdings should be reduced to no more than a 10 per cent interest in individual companies, although it would allow some eight to ten years for the banks to make any necessary disposals.

his closest advisers—Mr. Fund Butros for the Foreign Ministry, Our Frankfurt correspondent army commander Major General adds: Despite clear signs that economic activity in West of Defense and gendarmerie and police chief Major General Germany is beginning to slow down, the Bundesbank, the West Abmed al Hajj for the Ministry German Central Bank, appears unlikely to relax its record Under the Lebanese system, interest levels before the late the head of Government is summer.

always a Sunni Moslem, while Central Bank Council before its Christian and the Speaker in four-week summer break takes place this Thursday. Dealers in Generally known as "Taky the financial markets here suggest that the Bundesbank could decide then to lower the level of minimum reserves that must be held by the banks, thus

increasing bank liquidity,
Herr Karl Otto Pöhl,
president of the Bundesbank,
stressed yesterday that a major Lonrho, Nyerere in assets move factor remained the need to arract foreign capital into the Feaeral Republic to the deficit in help the current account of the balance | Demirel, then as now Prime Erim's bodyguard was of payments, which the Bundes-bank now expects to jump to around DM 25bn this year, compared with a deficit of only DM 10bn in 1979.

### **Television** dispute settled

By Roger Boyes in Bonn

A MAJOR ROW over political interference in West German broadcasting has been settled with a compromise between Social Democrat (SPD)-controlled Hamburg and the two Christian Democrat states of Schleswig Holstein and Lower

Saxony.

The immediate threat of a break-up of Germany's publicly controlled broadcasting system has thus been averted—but the role of politics in television broadcasting remains a highly sensitive issue in Germany, with only some three months to go before general elections.

After almost a year of political horse-trading the Prime Ministers of the three north German states which make up the Norddeutscher Rundfunk (NDR) breadcasting system, have decided to restructure NDR. The newlook system allows (but tacitly discourages) private commer-cial broadcasting, ensures that no Government representative sits on the NDR hoard and provides ground rules for politically and regionally

balanced coverage. The compromise has left all three states feeling vaguely dissatisfied, but has handed out consolation prizes to the Premiers, and makes it certain that the NDR system remains a three-state network for at least another 10 years.

Meanwhile Herr Franz Josef Strauss, Bavarian premier and Chancellor Helmut Schmidt's official election challenger, is threatening to withdraw from much work remains to be done the ARD, the umbrella broadbefore a final agreement is casting organisation, because he claims that he is being diseriminated against in political reports.

Thus Chancellor Schmidt's visit to Moscow was given extensive coverage but, as ARD executives poiont out. it would be difficult to justify giving Herr Strauss equal air time because the Bavarian leader's activities were simply not as newsworthy.

# Five shot after Iran begins coup trials in secret

BY PATRICK COCKBURN IN TEHRAN AND SIMON HENDERSON

conspiracy against the regime of Khomeini, Iran's revolutionary leader, executed yesterday. One was a former post-revolutionary head of the Gendarmerie, the others were air force officers. At least 500 people are still

under arrest and further execu-tions are likely following a call from Ayatollah Khomeini for the death penalty for anyhody involved in the attempted coup d'etat. "No one has the right o pardon any of them," he said. Those executed were shot by

firing squad after a secret trial lasting 16 hours. The attempted coup is said to have planned to return to power, Dr. Jhahpour Bakhtiar, the last premier appointed by the Shah, who escaped unhurt during an assasination attempt against him in Paris last Friday.

French police have arrested two more men who are believed to have taken part in the assas sination plot. Three had been arrested on Friday after a gun battle with police guarding Dr. Bakhtiar's flat.

French radio has reported that the leader of the attackers has confessed that he was acting on orders from the revolutionary authorities in Tehran, but at a Press conference yesterday the public prosecutor handling the case refused to confirm or deny the reports.

Other Press reports have indicated that the attackers were Palestinians. On Friday Tebran Radio had carried a statement from a previously unknown group, the Guardians of Islam, claiming responsibility.

Any Iranian connection has been emphatically denied by ment, and the President



Mr. Shahpour Bakhtlar

Mr. Sadeq Qothradeh the Foreign Minister, who claimed Paris at the weekend that Government had information the attackers were from a pro-Shah group.

Meanwhile, the ruling Revo lutionary Council has been theoretically 'dissolved,' After spending seven weeks on organisational matters the newly-elected Parliament has now assumed full legislative func-

Among its first tasks will be to approve a Prime Minister and Cabinet President Bani-Sadr is expected to put forward Mr. Hassan Habibi the Minister of Culture and Higher Educapled a moderate position in the rivalry between the hardline Republican Party Islam<del>i</del>c which dominates the Parlia-

### Turkish Marxist group claims latest killing

BY MET'IN MUNIR IN ANKARA

Nihat Erim, a former prime minister of Turkey, has been claimed by a Marxist underground organisation whose leaders were killed in a clash with the army in 1971 when

Mr. Erim was in office. nor of Istanbul, yesterday said
Mr. Erim, a soft-spoken, be that police had "important
spectacled politician of conclues" about the murder which
servative views had become took place last Saturday outside

ASSASSINATION in quell left-wing terrorism. He Istanbul on Saturday of Mr. stayed Prime Minister for 13 months but was unsuccessful and resigned. For the past few years he had been living in retirement. Mr. Nevzat Ayaz, the Gover-

Prime Minister that year when a beach club near Mr. Erim's the army ousted Mr. Suleyman Istanbul holiday house. Mr.

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NOTES DUE 1992
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By CITIBANK, N.A. Agent Bank. July 21. 1930.

The unaudited results for the six months anded 30th June, 1980 show an improvement compared with those for the same period last year.

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or by their Solicitors to come in and prove their said debts or claims at such time and place as shall be specified in such notice, or in default

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said Liquidator either personally
by their Solutions, to cope up and

C. J. O. SULLIVAN, Liquidator

### Bahrain refinery takeover

learned yesterday.

By Our Bahrain Correspondent

THE BAHRAIN Government has signed an agreement with the Bahrain Petroleum Company, a Caltex subsidiary, giving the country a 60 per cent interest in the oil company's refinery. The deal, backdated to July 1, was signed by Mr Yousuf Shirawi, Minister of Development and Industry, and Mr. Bill Tucker, president of Caltex and a director of Bapco. Both Saudi Arabia and Kuwait

are thought to be heavily involved in financing the takeover volved in financing the takeover country. Other reports, also and are expected, along with the Bahrain Government and Sra. Gueiler had sought refuge Caltex, to be represented on the board. Bapco said details of the Civilian resistance to the actual agreement would be military coup, the 189th in worked out during the next six Bolivia's history, continued in

# Mystery over ex-President

For its part Tanzania has ising the seizure of Lonrho

tive, have been involved in a Rowland. One said he used

### as Bolivians resist junta BY MARY HELEN SPOONER IN SANTIAGO

THE whereabouts of Bolivia's deposed President, Sra. Lidia Gueiler, remained a mystery yesterday amid contradictory reports that she had been deported to Paraguay or had sought political asylum in the U.S. Embassy in La Paz, the Bolivian capital. Sra. Gueiler was last seen

leaving the Presidential residence in La Paz on Saturday morning in military custody. Paraguayan officials have denied that she had arrived in the

transmission urging Bolivians to "maintain a strict discipline." The Bolivian Air Force has hombed at least one clandestine radio station in Colquiri, a town south of La Paz, killing one person and injuring another.

Reports from La Paz indicate that Sr. Marcelo Quiroga, the Socialist Party presidential candidate who came fourth in the June 29 election, and Sr. Simon Reyes, a leader of Bolivia's pro-Moscow Communist Party, have died of their injuries suffered when troops raided the Bolivian Workers' Central (COB) on

Sr. Hernan Siles Zuazo, who won the election, who was also wounded during the military takeover, is alive and in hiding months. No figures have been La Paz and other areas of the and broadcasting statements via released on the cost of the take- country yesterday. Clandestine undergrover radio stations have begun Bolivia. underground radio stations in

# Independence for New Hebrides

BY ROBERT MAUTHNER IN PARIS

decided to grant independence Jimmy Stevens, the rebel to their South Pacific condomi- leader, and Father Walter Lini. nium of the New Hebrides on head of the elected New Heb-July 30 as scheduled, in spite of the continuing rebellion on the island of Espiritu Santo, where secessionists have taken

A joint statement was made at the weekend following talks r. Paris between Mr. Peter Blaker, Minister of State at the Foreign Office, and his French opposite number, M. Paul Dijoud. State Secretary for Overseas Territories.

BRITAIN AND France have ing up the quarrel between Mr. the Anglo-French statement that rides Government, had made 'some progress."

"In view of the progress made and the enhanced possibility of independence taking place in unity and peace, the two Ministers decided that independence would come about on July 30, as desired by the New Hebrides Government." the statement said.

Mr. Blaker said that there

reached. The British and French officials who have been acting as mediators are due to return to the New Hebrides to pursue their peace mission. Mr. Blaker warned that if Espiritu Santo could not be brought back into the New Hebrides fold by independence day it would be considered as being in rebellion against the sovereign central Government. British officials said the Royal Marine contingent sent to the were sufficient signs of willing. New Hebrides last month would

FINANCIAL TIMES, published daily oxcept Sundays and holidays. U.S. subscription rates \$385,00 per innum. Socond Class postens paid at New York N Y., and at additional mailing he withdrawn unless the new Government specifically asked it

The statement said that a ness to negotiate for the

joint Anglo-French mission to independence deadline to be re-

Espirity Samo, aimed at patch- spected. But it was clear from to stay.

Tel: 01-728 3131 - Teler: 261771

Patricia Newby in Canberra and John Wyles in Brussels explain the reasons behind the trade threat from Canberra

# Why the lamb dispute forced Australia to draw the line

Australia's and Resources, threatened last week to divert up to A\$1bn (£500m) in trade away from the European Economic Community, he was not bluffing—at least it would be rash to assume

after,"

Australia is certainly very angry and worried about the move, announced on May 30 to include a sheepmeat regime in the Common Agricultural Policy (CAP).

Not only is there the prospect of a reduced market for Australian mutton and lamb, but the Australians fear disruption to other markets if subsidised EEC sheepmeat is off-loaded as has happened with other commodities under the

in Brussels on Wednesday lose credibility with both the when a high-level Australian EEC and the Australian elecdelegation will meet EEC officials Canberra can be expected to take a hard line.

Australia believes subsidised markets from unsubsidised producers of sugar, beef, dairy produce and flour. It is dis-mayed at the prospect of another subsidised commodity on world markets.

The chances of Australia retaliating if it does not receive some satisfaction in the sheepmeat negotiations are now higher than ever before. Mr. Anthony's threat to Mr. Finn Gundelach, the EEC's Agricultural Commissioner, earlier this week has been reiterated not only by Mr. Anthony but by other Cabinet ministers.

The cancellation of one or two headline-grabbing contracts such as the A\$200m (£100m) deal for four European Airbuses Government-owned domestic airline, TAA, is being held out as a possibility.

The Government has put itself in a position where it must -With talks due to be resumed follow through the threat or torate.

Mr. Anthony is adamant that the threat was not idle, "I am quite calm about it," he said. "We've got to draw the line

industry is very important to meat regime, the EEC Australia." exporting countries like

It is possible that military purchases from the EEC could be affected. Nobody expects the Government to make decisions in pique over sheepleat that would affect Australia's that would affect Australia's defence capacity, but in the grey areas—such as joint ventures worth millions of dollars for building sireraft and destroyers in Australia—a non-EEC partner might be given

Britain would be particularly vulnerable in the event of retaliation, because among the nine EEC members, it has by far the largest trade volume with Australia. Of the A\$3.5bn (£1.72bn) worth of EEC goods imported last year, about half were from the UK.

Mr. Anthony said last week that although Australia appreciated the help given by some EEC countries to his country's case, it was not possible to exclude them from retaliation. "The total membership of the EEC must recognise what the

consequences are," he said.

meat regime, the EEC wants exporting countries like New Zealand. Australia and Argentina voluntarily to limit exports in return for a lower rate of duty than the current 20 per

Australia exported about 11,000 tonnes of mutton and lamb in 1979, worth about A\$13m, to the EEC last year. The EEC is currently exporting about 6,000 tonnes of sheepmeat a year, but Australia fears that Community price supports will lead to surpluses which will then be sold cheaply on third markets in competition with unsubsidised commodities from local farmers.

Australia has been virtually excluded from the EEC market since the CAP was introduced in the mid-1960s and Britain's

have gradually been transformed. As Mr. Andrew Pea-

WHY AUSTRALIA MATTERS TO EEC COMMODITY EXPORTS TO THE NINE FEG COUNTRIES ROJECTS APPROVED BY THE FOREIGH INVESTMENT REVIEW BOARD 1978/9 CAPITAL INFLOW 1974/5-78/9 STOCK OF PRIVATE INVESTMENT

Australia's foreign, defence Australians accept that for new markets in South East Asia

finished. What really hurts is that

and trade policies, which were practical purposes, the old which Australia has developed once heavily tied to Britain, relationship with Europe is to compensate Officials estimate that unsub-

sidised producers like those in cock, the Foreign Minister. said Europe has not only shut off its Australia, have lost 200,000 exporting to Papua New Guinea, onsequences are," he said.

Under the proposed sheep- firmly rooted in South-East Asia.

because they cannot compete with subsidised exporters in

MAN DES SELL PEARS

-- CANNED FRUIT

The ultimate taunt came when EEC sugar manufacturers began

ducers in Queensland only a few hundred miles away. The EEC's refusal to sign the International Sugar Agreement has been a bone of contention between Australia and the EEC for years. In 1975, the EEC was a net sugar importer, but with the help of subsidies its members exported an estimated 3.8m tonnes in 1979—more than Australia's entire production of 3.4m tonnes. Subsidies on dairy products, cereals and flour are effecting Australian and New Zealand exports to neighbour-ing economies of South-East Asia and Japan.

Now that sheepmeat threatens to join the list. Mr. Anthony has demanded a guarantee that there will be no subsidised sheepmeat exports.

The EEC says it is not going to happen, but we've heard that before," he said.

"I think we've just got to start cancelling a few significant orders to make the EEC realise that what's good for the goose is good for the gander." he said. The Europeans will have the

Anthony's bluff this week-if

opportunity

# This time, it's a threat which Brussels cannot afford to ignore

AUSTRALIA'S tough tactics are the Nine and unless there is deeply revealing about the dif- some redress then a political ficulties and tensions in its rela- and trading relationship of intions with the European Com-

trade reprisals against the EEC as to the justice of the Austral- reserves, is an exporter of coal with a political roughing up in ian cause, there is a steadily Canberra for Mr. Finn Olav growing appreciation that the Gundelach which reportedly left Community needs better politithe Community's Agriculture cal and trading relations with Commissioner shaken and angry. the Antipodes.

But there can be no doubt that he will bring back to Brussels precisely the message which in their ambitious struggle to Canberra was determined to reduce dependence on imported its grievances being ignored by potential market for the Com-

creasing importance to the EEC

Rich in the coal and uranium which the Nine will need to tap

A recent Commission paper entitled "Australia and the Community - a new relationunderlined the point. Senior Ministers followed up While there is by no means a Australia has 17 per cent of their harsh public threats of common view among the Nine the free world's uranium and within a decade could be non - Communist world's biggest aluminium producer.

The achievements of the last four years, which have seen a 28 per cent increase to £1.72bp the Community's sales to Australia, could indeed be threatened by restrictive trade drive home: Australia is tired of oil, Australia is also a major measures for the simple reason

The Nine are irritated by Australian complaints about CAP barriers to its farm exports to the EEC, because they are made from inside a protectionis: glasshouse. Average Australian tariffs on EEC manufactured goods are 16 per cent (compared to the EEC's 1 per cent on Australian goods). The Com-munity has frequently com-plained that this barrier. coupled with lower priced competition from Japan, Taiwan and South Korea, is damaging its

But the fervour with which

and Ireland protect their national interests in the CAP limits the Community's scope for agreeing concessions on return for lower tariffs on European manufactured goods.

Australia has already demonstrated a limited readiness to use the trade lever by withholding formal ratification of and the Australian Government modest concessions it made bilateral negotiations with the Community within the GATT framework last year.

agreement was supposed to ation in relations. chart a new way forward for EEC-Australia relations.

serve and develop its exports to Australia, the EEC, also has an increasing need to buy that materials on the most favourable terms possible. Sensitive negotiations on safeguards to be applied to the future supply of uranium and Prime Minister Fraser has

hinted that these might not be

There are also broader poli-

tical reasons for the EEC to be While needing both to preon good terms with Canberra. Australia and New Zealand are seen as important stabilising influences in the Pacific and Far East with an important role to play as mediators in the increasdifficult North-South disputes now emerging. The scope for granting

Australia the "equality of trading opportunity" to sell more of its farm products into the EEC is limited by the Community's

Although narrow in scope, the insulated from a major deterior- growing self sufficiency in a wide range of produce and by its preferential agreements with Mediterranean and Lomé Con-

> tion to better relations would he a sensible reform of the CAP so that the Community has fewer surpluses of dairy produce, sugar and some grains to sell at subsidised prices on world markets. This is the problem which the EEC is supposed to tackle next year within budgetary reforms.

# ITC rejects Carter car plea

BY DAYID BUCHAN IN WASHINGTON

A semi-independent U.S. trade Auto Workers Union (UAW) in panel has so far refused to be mid-June. Import penetratic., pushed by political pressure especially from Japan, has risen from President Carter and a majority of Senators into speeding up its investigation into the effects of imports on the U.S.

car industry.
The U.S. International Trade Commission rejected on Friday by four votes to one Mr. Carter's want to be rushed into a com-request for an accelerated car plex suit, in which the UAW is import ruling by September or asking for a higher tariff to reearly October. That request duce car imports. However, the paralleled one made by some 51 Commission said its Friday

plaint brought by the United a speedy decision.

to over a quarter of the market, and is undoubtedly a major factor in the Detroit-based industry's woes. Unemployment among UAW members now runs at 25 per cent

The ITC evidently does not decision was not final, and other Normally, the ITC would have ways might be found to accomsix months to consider the commodate Mr. Carter's desire for

say on any ITC finding. He has thus far promised to help the car industry in several ways, but not by restricting imports. However, if the ITC were to make its recommendations soon, he would be in a position to order tariff relief for the domestic car industry in the the election.

Aid measures promised by the Administration to the car industry this month include a postponement in new exhaust emission standards and credit for hard pressed car dealers.

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### **World Economic Indicators**

TRA	DE STATE	STICS	•	
	lune '80	May '80	Apr. '88	June 79
UK Ebn Exports	4.010	3.973	3.885	3.4
Imports	4.027	3.991	4,149	3.8
	-0.017	-0.018	-0.264	0.4
France Fr bn Exports	40.763	38.328	42.286	34.846
Imports	46.580	45.558	44,330	35.987
Balance	一5.817	<b>7.23</b> 0	-2.044	<b>—3.747</b>
•	May '80	Apr. '80	Mar. '80	May 79
U.S. Sbn Exports	17,678	18.468	18.534	13,862
Imports	20.528	19.308	20.607	16,342
Balance	-2.850	-0.840	-2073	-2.480
<b></b>				
Italy Lira ba Exports	5,575	5,411	5,617	5,014
imports	7,088	6,921	7,001	5,716
Balance ,	1,513	- 1,510	1,384	<b>-706</b>
Germany DMbn Exports	28.90	30.14	31.30	26.99
Imports	28.60	29.04	29.30	24.99
Balance	+0.30	+1.10	+2.00	+2.00
	Apr. '80	Mar. '80	Feb. '80	Apr. 79
lanan Shn Exports	9.850	10.483	9_399	7.809
2-p	10,680	10.526	9.586	7.338
imports	~0.830°	-0.043	-0.187	+0.471
Balance				
Holland Fi bn Exports	12.550	13.315	12.557	10.044
Imports	12,958	14.053	12.701	10.287
Balance	<b>0.408</b>	-0.738	-0.144	-0.243
· · · ·	Feb. '80	Jan. '80	Dec. '79	Feb. '79
Belgium Fr bn Exports	169.400	155.700	137.800	126.327
imports	185.900	181.768	152,600	128.160
Balance	<b>— 16.500</b>	-26.068	<b>— 14.800</b>	<b>— 1.833</b>
	•			

### ASPREY & COMPANY, LIMITED

Notice is hereby given of the appointment of Lloyds Bank Limited as Registrar.

All documents for registration and correspondence should in future be sent to the address below.

> R.B.CROOKS ACIS. Secretary



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# SHIPPING REPORT

### Dry cargo rates easing

By William Hall, Shipping Correspondent

THE KEY U.S. Gulf/Continent grain rate appears to have stabilised at around \$15 per tonne after its sharp fall over the past month. However, most other rates in the dry cargo markets have tended to ease both in the Atlantic and the

Pacific over the past week. Aside from the downturn it world trade one of the main factors behind the current weak ness in the dry cargo market is the increasing number of combined oil/bulk carriers that have switched out of oil and into dry bulk to take advantage of the buoyant freight rates.

John I. Jacobs, the London shipping brokers, reports that the amount of combined carrier tonnage operating in the oil trades has fallen to 26 per cent of the total fleet — its lowest level since it first started keeping records.

At the end of January there were 197 combination vessels of 20.5m dwt in the oil trades. By the end of June the fleet had dropped to 122 combination carriers, totalling 12.2m dwt. As the total bulk carrier fleet of between 80,000 dwt and 150,000 dwt only amounts to 158 vessels totalling 17.9m dwt (Fearnley and Egers' figures) the influx of another 75 ships totalling 8.3m dwt is the equivalent of a near 50 per cent increase in

the fleet.

The large increase in the number of bulk carriers of around 100,000 dwt operating in the dry bulk trades has taken it tell on freight rates for this size of vessel. According to the latest figures from the General Council of British Shipping (GCBS) there has been no growth in its tramp trip charter index for vessels of 85,000 dwt, and over, in the first half of 1980.

By contrast smaller bulk carriers in the 35,000 dwt to 50,000 dwt size group have seen their freight rates (on the basis of the GCBS index) rise by around a fifth so far this year and over the last 12 months. rates are up by some 55 per

In the oil tanker markets the outlook for the larger vessels shows no sign of improvement.

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MINIMUM TENDER PRICE £94.00 PER CENT

Deposit with tender

On Friday, 22nd August 1980 On Friday, 28th September 1980

INTEREST PAYABLE HALF-YEARLY ON 10th JANUARY AND 10th JULY

This Stock is an investment falling within Part II of the First Schedule to the Trustae Investments Act 1961. Application has been made to the Council The Stock Exchange for the Stock to be admitted to the Official List. THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND are authorise to receive tenders for £1,000,000,000 of the above Stock; the balance of £200,000,000 has been reserved for the National Debt Commissioners for public

The principal of and interest on the Stock will be a charge on the National Loans Fund, with recourse to the Consolidated Fund of the United Kingdom. The Stock will be registed at the Bank of England or at the Bank of Iraland. The Stock will be registered at the Bank of England or at the Bank of Iraland.

Belfast, and will be transferable, in multiples of one new penny, by instrument in writing in accordance with the Stock Transfer Act 1963. Transfers will be free of stemp duty.

Interest will be payable half-yearly on 10th January and 10th July. Income tax will be deducted from payments of more than £5 per annum. Interest warrents will be transmitted by post. The first payment will be due on 10th January 1981 at the rate of £6.2172 per £100 of the Stock.

Tenders must be lodged not later than 10.00 a.m. on Wednesday, Z3rd July 1980 at the Bank of England. New issues, Watting Street, London, £C4M SAA or not later than 3.30 p.m. on Tuesday, Z2rd July 1980 at any of the Bank of England or at the Glasgow Agency of the Bank of England. Each tender must be for one amount and at one price. The minimum price, below which tenders will not be accepted, is £94.00 per cent. Tenders must be made at the minimum price or at higher prices which are multiples of £5p. Tenders lodged without a price being stated will be deemed to have been made at the minimum price.

A separate cheque representing a deposit of £20.00 per cent of the naminal amount tendered for must accompany each tender; cheques must be drawn on a bank in, and be payable in. the United Kingdom, the Chemiel Islands or the Isla of Man. Tenders must be in sealed envelopes marked "Treasury

Her Majesty's Treesury reserve the right to reject any tender or to allot a less amount than that tendered for. If undersubscribed, the Stock will be allotted at the minimum price, the belance of Stock not tendered for being allotted at the minimum price to the Governor and Company of the Bank of England, issue Department. If oversubscribed, all allottments will be made at the lowest price at which any tender is accepted (the allottment price), and tenders accepted at prices above the allottment price will be allotted in full. Letters of allottment in respect of Stock allotted, being the only form in which the Stock may be transferred prior to registration, will be dospatched by post at the risk of the tenderer, but the despatch of any letter of allottment, and any refund of the balance of the amount paid as deposit, may at the discretion of the Bank of England be withheld until the tenderer's chaque has been paid. In the event of such withholding, the tenderer will be nortified by fetter by the Bank of England of the acceptance of his tender and of the amount of Stock allocated to him, subject in each case to payment of his chaque, but süch notification will confer no right on the tenderer to transfer the Stock so allocated.

No allotment will be made for a less amount than £100 Stock. In the event of partial allotment, the balance of the amount paid as deposit will, when refunded, he remitted by chaque despatched by post at the risk of the tenderer: if no allotment is made the amount paid as deposit will be returned likewise. Payment in full may be made at any time after allotment but no discount will be allowed on such payment, interest at the rate of 1 per cent per annum over the Bank of England's Minimum Lending Rate on a day-to-dep sais may be charged on any overdue amount which may be accepted. Default in due payment of any amount in respect of the Stock will render the allotment of such Stock liable to cancellation and any amount previously paid liable to forfeiture. Letters of allotment may be split into denominations of multiples of £100 on written request received by the Bank of England, New Issues, Watling Street, London, ECAM 9AA, or by any of the Branches of the Bank of England, on any date not later then 24th September 1980. Such requests must be signed and must be accompanied by the letters of allotment (but a letter cannot be split if any instalment payment is overdue).

Letters of allotment must be surrendered for registration, accompanied by a completed registration form, when the balance of the purchase money is paid, unless payment in full has been made before the due date, in which case they must be surrendered for registration not later than 25th September, 1980.

Until the close of business on 8th December 1980 Stock issued in accordance with this prospectus will be known as 11½ per cent Treasury Stock, 1991 "A": the last date for lodgment at the Bank of England of transfers of "A" Stock will be 4th December 1980. The interest due on 10th January 1981 will be paid separately on existing holdings of 11½ per cent Treasury Stock, 1991 and on holdings of "A" Stock; consequently, interest mandates or authorities for income tax exemption recorded in respect of existing holdings will not be applied to the payment of interest due on 10th January 1981 on holdings of "A" Stock. From the opening of business on 9th December 1980 the "A" Stock will be amalgameted with the existing Stock.

Tender forms and copies of this prospectus may be obtained at the Bank of England. New Issues. Watling Street. London, EC4M 9AA, or at any of the Branches of the Bank of England, or at the Glasgow Agency of the Bank of England; at the Bank of Ireland, P.O. Box 13. Donegall Place, Belfast. BYI 5BX: at Mullens & Co., 15 Moorgate, London, EC2R 6AN; or at any office of The Stock Exchange in the United Kingdom.

BANK OF ENGLAND LONDON 18th July 1980.

### THIS FORM MAY BE USED

TENDER FORM

This form must be todged not later than 10.00 a.m. on Wednesday, 23rd July 1980 at the Bank of England, New Issues, Watting Street, London EC4M 9AA or not later than 3.30 p.m. on Tuesday, 22nd July 1980 at any of the Branches of the Bank of England or at the Glasgow Agency of the Bank of England. Tenders must be in sealed envelopes marked "Tenders" Tenders.

ISSUE OF £1,200,000,000

### 113 per cent Treasury Stock 1991

MINIMUM TENDER PRICE 494.00 PER CENT

TO THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND I/We tender in accordance with the terms of the prospectus date.

in a multiple as follows:-Amount of Stock tendered to NOMINAL AMOUNT OF STOCK



£ TENDER PRICE (a)

AMOUNT OF DEPOSIT (b) as they shall become due on

me/us be sent by post at my/our risk to me/us at the address shown below July 1980. SIGNATURE.. of, or on behalf of, tenderal

ı		1	
FULL POSTA ADDRESS;-			
FT	POST-TOWN	COUNTY	POSTCODE

The price tendered must be a multiple of 25p and not less than the minimum tender price. If no price is stated, this tender will be deemed to have been made at the minimum tender price. Each tender must be for one amount and at one price. A separate cheque must accompany A separate cheque must accompany each tender. Chaques should be made payable to "Sahk of England" and crossed "Treasury Stock". Cheques must be drawn on a benk in, and be payable in, the United Kingdom, the Channel Islands or the Isle of Man.

STAMP OF LODGING AGENT

### Delays in nuclear expansion scheme

By Martin Dickson, Energy

CONSTRUCTION work on two stations, scheduled to start in August, is now expected to be delayed until next year. The development is an embarrassment to the electricity supply industry and a setback to the Government's ambitious nuclear expansion timetable, which has ment's already shown signs of slipping.

The new delays concern two stations of the advanced gascooled reactor (AGR) design, one to be built for the Central Electricity Generating Board at Heysham in Lancashire and the other for the South of Scotland Electricity Board at Torness in Scotland.

The start of construction is expected to be put back by between six and nine months because the Boards have still not completed their design and safety plans. It will be the second delay for this reason. Construction was originally intended to begin last spring. but was put back until August.

The delay is embarrassing to the boards because earlier this year, when the Government was debating whether to proceed with the two AGRs, the supply industry urged that the two be

built as quickly as possible. However, the boards are anxious to ensure that the detailed design and safety plans for the stations are in order, so as to avoid the late modifications which bedevilled earlier AGR construction programmes.

The two plants are meant to be close copies of the Hinkley Point "B" station in Somerse; designed in the 1960s, but will incorporate significant modifications, notably extra fuel channels and an enlarged reactor diameter.

The delays could increase the cost of the stations, currently put at £1.25bn for Heysham and £1.2bn for Torness, with addi-

### Oil and gas reserves treble in value

By Martin Dickson

THE CAPITAL value Britain's in-place oil and gas reserves has trebled during the past year, according to stockbrokers Hoare Govett. A doubling of oil prices over

the past year has outpaced the Government's recent changes in taxation, in particular its increase in petroleum revenue tax, to treble the net present by Mr. Norman Sussman, joint value of reserves, says Oilfacts, the company's quarterly bul-

It estimates that the net present value of large offshore oilfields (150m barrels recoverable) five years away from the start of production averages \$4.30 (£1.90) a barrel.

The net present value is derived by discounting the expected cash flow stream of an oil or gas project and dividing this value by the reserves expected to be extracted.

BY ALAN FRIEDMAN

in Brighton.

commercial whaling today at the opening session of the 32nd

annual meeting of the Inter-national Whaling Commission

Mr. Richard Frank, chief U.S.

delegate to the five-day meeting, said yesterday that he would urge an indefinite moratorium

on behalf of the Carter Admini-

stration, because of "our un-

certainty about the scientific

Though whaling had been

greatly reduced in the past five

evidence on whale-hunting."

# CBI presses for faster regional grant payments BY RAY PERMAN, SCOTTISH CORRESPONDENT

INCREASING DELAYS in payment of regional development grants, causing some small companies severe cash-flow problems, will this week he raised by the Confederation of British Industry at a meeting with Sir Keith Joseph, Industry Secretary.

The CBI said yesterday that it had already "protested vehemently" to the Government over the delays, and that employers' associations were concerned.

Last year the Government ordered a four-month pause in grants payment, as an economy measure. But reports from Scotland, the North-East and North-West of England, and Wales, indicate that some applicants wait eight months to a

Regional grants of 20-22 per cent of cost of new plant or buildings are intended to encourage companies in areas of high unemployment to invest. But the Government's clampdown on industry spending and long periods companies wait for money are deterring applica-

regional offices of the Depart- which flooded in from places

year from the European Social

The province is one of five

European regions given "abso-

lute pricrity" by the EEC

Commission. It receives more

than £23m to help finance a

variety of training schemes for

the young, the unemployed and

Sig. Antonio Giolitti, the

European Commissioner for Regional Policy, announced the

list of recipients during a week-

British Clothing Industry Asso-

ciation-has been formed from

The new group will be headed

managing director of L. S. and

J. Sussman, and in one of its first actions will begin joint

wage negotiations with clothing

together are the Clothing and course."

THE UK and the U.S. will call vation measures were needed, ing in the Indian Ocean until for a worldwide ban on all But "whaling nations" such as 1989, and a ban on whaling by

Japan and the Soviet Union

could "only be pushed so far."

both that if the commission

totally bans commercial whal-

ing, they may leave it and form

a rival group. Sir Peter Scott.

conservation adviser to the

British delegation, expressed

these fears last week.
Political impact would be

greatest on Japan, the second

largest whaling country. The

Japanese, with the Russians.

protested vehemently last year

when the commission approved

years, he said. further conser- a ban on all commercial whal-

There have been hints from

six existing organisatons.

trade unions this week.

wound up.

end visit to Northern Ireland.

handicapped.

One-third of UK's £63m

**Eurogrant goes to Ulster** 

NORTHERN IRELAND is to particularly for school leavers

receive more than one-third of and the young unemployed, Sig. the £63.5m grant to the UK Giolitti said he shared the under the first allocation this pessimistic view that the

Although he hoped the aid ployed and young peo would enhance job prospects, ing the labour market.

Garment bodies unite

A NEW BODY to represent Shirt Manufacturers Federa-

garment manufacturers - The tions, and the British Apparel,

In recent years the various in common with all others, has

sectors have been finding it a right to certain minimum

necessary to co-ordinate efforts, standards of economic stability

This was previously done in terms of both market and through an umbrella body, the fiscal conditions. Where we see British Clothing Industry Joint the Government failing to pro-

Council, which has now been vide these we should be failing

The organisations now coming not press them to change

expenditure.

ing." he said.

there was criticism of the offices ment Area status under the in Glasgow, Cardiff, Billingham Government's regional policy and Bootle for slow processing. review last year.

The CBI in Glasgow and Chambers of Commerce in Edinburgh and Glasgow are among bodies complaining about slow payment and they have collected evidence from companies suffering hardship because of delay.

Mr. Colin McNab, assistant director in the CBI's Cardiff office, said delays and high interest rates companies were paying on overdrafts were reducing the value of grants. They are now more of a revenue subsidy than a grant on capital," he said.

Mr. James Cran, director of the CBI's Newcastle office, said: Our experience is that delays are getting longer rather than shorter, but all we get from the Department of Industry is excuses. It is having a terrible effect on the cash-flow of small companies, who are having to borrow at very high interest

One cause of delay is the Grants are paid by the large number of applications

additionality. Very often it hap-

a substitute for national financ-

settlement schemes with special

emphasis on helping the unem-

ployed and young people enter-

Corsetry, Overall and

Manufacturers Association.

Mr. Sussman said yesterday

the industry was facing its

areatest crisis and needed a

powerful voice to lobby for it.

We have listened to the calls

by Government Ministers that

we shou'd do more to belo our-

factory ships on the high seas.

This vote was passed 18-2

with three abstentions. Resolu-

tions must have a three-quarters

majority to succeed. Since last

has grown from 21 to 25. in-

cluding anti-whalers such as

Switzerland.

ment of Industry. Recently which are about to lose Develop-

In Scotland, for example applications up to the cut-off period in March this year increased by one-third on last year, in spite of deterioration in general business confidence.

But since then there has been a dramatic fall in the number of companies applying. The drop has so alarmed Scottish Economic Planning Department officials that they are visiting companies to press them to apply for grants. "We want to assure them the Government is still in the business of helping industry," one official said.

Scottish Ministers are concerned about the effect on jobs and investment. They have suggested informally to the Department of Industry that it might be time to review the four - month moratorium payments.

The problem has been compounded by the freeze on Civil Service recruitment. Grantpaying departments in some regional industry offices have a high turnover of staff and have not been able to fill gaps.

# 200 more iobs lost

assistance, in reality, did not ANOTHER 200 empyoyees at serve to increase Government Chesterfield's Giass Bulbs company are to lose their jobs, in Experience shows that it is addition to the 100 made always very difficult to achieve redundant in January. The new redundancies, to take effect in three months, follow the compens, not only in the UK but in other member states, that the European contribution is merely pany's award of an 11 per cent pay rise to its 1,300 staff and its warning that they could be pricing themselves out of work. The Social Fund allocation to The company makes fluorescent

> At Chesterfield, too, unions say they have been notified of 100 redundancies by Sheepbridge Engineering, which has been hit by loss of orders for Middle East countries.

> At Ilkestone, Derbyshire, 558 staff at Domestic Industrial Pressings will go on short time because of falling demand for domestic appliances. They will start working alternate threeand four-day weeks after the company's annual summer

hourly-paid workers at a GEC **Flachines** plant will start a three-day week today. About 80 people have been made redunselves. However, our industry, | dant from the end of the week,

Gatwick - based Air The by 100 to nearly 400 over the next six months as it expands its jet fleet,

BL has not sold off the Goodwin Barshy construction equipment business. as was suggested in a report in Friday's Financial Times. The company has been UK and U.S. seek total ban on whaling separated from Aveling Barford and is now part of the SP Industries division of BL. In 1979 Goodwin Barsby made a loss of 1989, and a ban on whaling by £1.5m but in the first half of 1980 was trading profitably.

SALES of index-linked National Savings Certificates Retirement year the number of members Issue had another good month in June with net receipts of £33.5m. But repayments of all non-indexed issues exceeded 19th issue sales to produce a net outflow of £1.2m.

Mr. Jerry Wiggin. Parliamentary Secretary to the Ministry Agriculture, opens Brighton meeting today. is expected to repeat the UK policy of a ban on all commerend of June were £13.73bn.

# after 11% pay rise

the UK will assist vocational training, retraining and relight tubes, car light bulbs and lampshades.

holidays.

Europe, on the other hand, says it is to increase its workforce

in our responsibility if we did | Trading profitably

Indexed savings up

All National Savings totalled

£284.9m, and repayments £180.9m, giving a net inflow of £104m. Total savings at the

## CONSUMER CONFIDENCE SURVEY

# Level of optimism increases slightly

BY DAVID CHURCHILL, CONSUMER AFFAIRS CORRESPONDENT

A SLIGHT improvement in the suggested by the latest Financonfidence, published today.

The index for July shows a 4 percentage point improvement over last month but still leaves the index of future confidence standing at minus 27 per cent. In July, about 19 per cent of

the 1,082 consumers surveyed felt that conditions would improve—the highest level of optimism recorded so far this year. But 46 per cent of the survey still felt that conditions would worsen, which left the overall index still reflecting a high level of pessimism. But the Government can take

comfort from the fact that the underlying trend of confidence appears to be improving. The six-monthly index for July which gives a more accurate picture of the trend over the past half-year — has fallen two points to minus 33 per cent This is at about the same level as the six-monthly index stood last November.

The slight increase optimism in July may have been due to such seasonal factors as people anticipating their holidays, which tends to make people more optimistic.

But it is perhaps significant that among the optimistic consumers in the survey there was a sharp increase in the num-bers citing Government policies as their reason for optimism. This was cited by some 36 per cent, compared with 26 per cent

The main reason for optimism, however, still remains the rather nebulous reason, given by 49 per cent (down 7 per cent from last month) who simply believe that "things must improve."

Among the numerically larger level of consumer optimism is group of pessimistic consumer unemployment has replaced cial Times survey of consumer inflation as the main worry. Some 36 per cent cited unem ployment as their reason for pessimism—a rise of 3 per cent -while 30 per cent (down from 38 per cent) were worried by

inflation. Industrial disputes were still only cited by 4 per cent as a reason for pessimism.

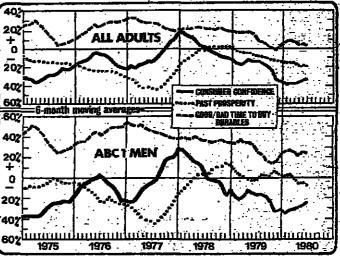
Analysis of the survey shows that the increase in future confidence was fairly evenly spread. among all social sub-groups. The index for ABCI women (professional and executive) has reflected the least pessimism over the past year.

This group's relative optimism has been mainly due to their greater support for Government policies in July, for example, there were five times as many favourable mentions of the Government's there policies es unfavourable.

In a separate question on unemployment, the survey showed that 65 per cent thought unemployment would increas while 12 per cent expected it to-fall. This gave an unemployment index" of plus 53 per cent; the same as for last month.

The index of past prosperity, showing how families feel in relation to a year ago. Was tenchanged this month. Some 22 per cent thought they were better off than a year ago, while 43 per cent felt worse of This gave an index figure of minus 21 per cent, the same as for reason for last month.

The Financial Times survey of consumer confidence -was carried out between July 3-9, by British Market Research Bureau A sample of 1,082 adults was interviewed.



## Harold Brockman, writer on architecture, dies at 77

who died aged 77 or July 18, defended established architects had been the architectural of the day saying architects correspondent of the Financial are not to blame for the Times since 1961.

but later decided to study architecture at the Northern and Regent Street Polytechnics. After the Second World War

he was a member of the London County Council historical buildings division, where he initiated the Preliminary listing of historic buildings in the London boroughs. In 1946 he moved to the Ministry of Housing and Local Government, and developed a link with the Royal Fine Art Commission for the risual assessment of local authority buildings.

Before joining the staff of the Financial Times he wrote for many professional journals, but felt it was the duty of an architectural writer to make buildings more easily understood by the layman. In this field he was an important pioneer and his detailed and meticulous reviews gave an un-biased view of new British architecture during the build-

HAROLD BROCKMAN, OBE, ing boom of the 1960s. He concrete jungle." He felt some He first trained as a lawyer local authorities and developers misused modern architecture, seeing it simply as a way to

build cheaply.

He was the author of two books: The Caliph of Fonthill. a biography of William Beck-ford; and The Architect in Industry 1840-1940. It was his role in organising the Financial Times Industrial

Architecture Award from its inception 14 years ago that that particularly carned him the respect of the architectural Harold Brockman will be

much missed by his friends and the architectural profession. was unfallingly courteous of his wife and his own long and painful illness with remark able courage. After his retireadviser to the Financial Times for its Industrial Architecture

Colin Amery

# How the Finance Bill has been changed

THE RULES for profit-sharing 6, 1979. Individuals given shares schemes, originally conceived on this date would therefore be during the Lib-Lab pact in 1978, able to cash them in after April have been changed in two significant ways since the Finance Bill was first published. Com- at the report stage. This amendpanies operating such schemes ment extends profit-sharing can now give their employees arrangements to subsidiaries shares in the business worth up provided their parent company to £1,000 a year.

These shares are subsequently held by trustees who are required to keep them for at least two years, after which the employee can if desired sell them. To discourage quick disposals, however, less income tax is paid on the proceeds of sell-ing shares the longer they are held. In years three and four, income tax has to be paid on the full value of the shares sold: in year five it is paid on 75 per cent, in year six on 50 per cent, in year seven on 25 per cent and thereafter disposals are tax

These reliefs, an improvement on the original ones, were announced by the Chancellor in his March Budget statement to apply to share appropriations after April 6, 1980. At committee, however, the Government has decided to extend them to approved profit-sharing schemes begun on or Ater April

The other change was made is quoted on a recognised Stock Exchange and is not a close

regular savings vehicle and bonus plus Interest on this exempting the employee from bonus of 8 per cent, and conthe share purchase.

the outline of the new issue of SAYE contracts, which will be

five but after year one will During the committee stage attract interest on the contribulinked solely to share option by November. schemes, was announced. The

tions of 8 per cent. The new issue is expected to be launched As foreshadowed in the maximum monthly contract, for Budget statement, extensive

The Finance Bill, due to become law in the near future, has been considerably amended on its way through Parliament. Tim Dickson and Michael Lafferty explain the main changes to the original Bill.

company. The Inland Revenue acknowledges the difficulty of valuing the shares of subsidiaries and realises this concession is open to manipulation, which is why the schemes will be open only to subsidiaries of quoted businesses. Savings related share ontion schemes, unveiled by the Chan-

cellor in the Budget, have

reappeared with more flesh on

schemes give employees the

option to buy the shares of their

company at a certain point in

the future at a fixed price. The

bones. Share option

month

instance, will be £50, and con- new legislation was introduced tributions will be made through at the committee stage to facilicither a building society or the tate splitting up independent Department for National Sav-

The return will be geared to of situation at GEC, where the these monthly contributions, so management is said to have that at the end of five years been considering splitting off bonuses will be paid equivalent part of the group by. to 18 monthly contributions and. at the end of seven years, to 36 monthly contributions. An employee putting aside £20 a ness. would therefore have The new £1,560 after five years and allow such a split without any £1,920 at the end of seven.

trades in the corporate sector. Ministers had in mind the sort example, issuing shareholders with separate shares in two independent parts of the busi-

legislation will tax consequences. Relief extends Government, meanwhile, plays years five and seven, mean- tax to stamp duty, development years.

its part by providing a special while, will receive the five-year land tax and capital gains tax. The principle underlying the income tax if he opts to make tracts terminated before year applies where no assets leave the corporate sector as a result of such schemes.

A number of groups, including the Laing group, have ing two years. demerged under existing legislation. But the procedure was extremely complex Several amendments relating

that assets which would not qualify for 100 per cent tax relief if brought by a company should not qualify for such allowances if leased. One of the main consequences is that 100 per cent capital allowances will no longer be available for leasing to local authorities. This means much of the leasing market, possibly up to £500m

year, is likely to disappear. Expenditure on TV sets rented to customers is also affected by the new rules. However, the recent amendments provide for more transitional relief: 100 per cent capital allowances will continue for sets delivered in the period up to May 31, 1982, and allowances at 75 per cent and 50 per cent Contracts cashed in between from income and corporation will be given in the next two

In addition as a special measure, expenditure on Viewlegislation is that relief only data (Prestel) sets will continue to qualify for 100 per cent relief for sets delivered up to May 31. 1984, and for allowances at 75 and 50 per cent in the follow-

The budget statement announced a special form of relief for businesses which may experience temporary dips "into leasing have been intro-duced. The basic principle is recession or strikes, for recession or strikes, for example. Under existing legislation, such dips mean businesses affected become subject to a "stock relief recovery

> The Bill, as published, said the right to defer a recovery charge would be restricted by reference to the extent that a business was financing its stock through credit. Now, this restriction will apply only to the largest cases. The rule will be that the relief for "temporary dips" will be restricted on account of net indebtedness only where the net amount of the recovery charge (after deducting 5 per cent of the opening stock) is more than \$100,000. Where the charge exceeds \$100,000, the restriction tion will apply only to the

هكذامن الأحبل

UK NEWS - LABOUR

هكزامن الأحمل

# Callaghan hits at Tory job record at Tolpuddle rally

BY ELINOR GOODMAN, LOBBY STAFF

country's union movement, he. accused Mrs. Thatcher's Govern-unemployment figures are

maintain a high and stable level of employment.

Government, under the personal are becoming increasingly employment direction of the Prime Minister gloomy about the job outlook. Callaghan is ho herself, has, for the first time, agreed in principle to a new this tomorrow.

MR. JAMES CALLAGHAN, foresworn any responsibility for package of remedial measures

protest which the Opposition is planning to unleash in the Commons tomorrow when the

ment of "intolerable and in announced human complacency.

Mr. Callaghan has asked all Mrs. Thatcher, he said, was Labour MPs to be in the dodging her responsibilities and chamber for Prime Minister's was standing aside while whole Question Time in an attempt to industries collapsed. All Govern-orchestrate a sustained attack ments since 1945, he said, had on the figures, which he ments since 1945, he said, had on the figures, which he until now accepted that it was predicted yesterday would be their responsibility to seek to the worst since 1936.

semployment indications emerged that both In-contrast, the "Thatcher Ministers and some Tory MPs

leader of the Labour Party maintaining a high level of to help cut particular kinds of Opposition, yesterday launched employment." The country, he his most bitter attack yet on claimed, would accept nothing figures have been put on the his most butter the Government's employment tess man a policies when he spoke at the policies.

Tolouddle Martyrs' Memorial Mr. Callaghan's attack is is almost certain to intensity regarded as a foretaste of the as the unemployment figures are shigh the Opposition is get worse and Conservative the Opposition is see the

> constituencies.
>
> The aim seems to be to announce the package in the autumn when some Ministers believe that the Opposition's message in Parliament about the effect of the Government's policies on jobs may be having an impact on the electorate.
>
> Over the past few weeks, the His criticisms came as further Parliamentary Labour Party indications emerged that both has begun to co-ordinate its opposition on the Government's employment record. Mr. Callaghan is hoping to build on

consequences of this in their

# Fresh moves over the Observer

BY PHILIP BASSETT, LABOUR STAFF

FRESH EFFORTS will be made newspaper's management to be immediately to Mr. Keys' protomorrow by the Advisory, called in to ACAS even for posals.

Conciliation and Arbitration separate talks. Service to resolve the pay dispute at the Observer which has caused the newspaper's management to issue a formal 90-day notice of the paper's closure. from closing.

The union at the centre of the dispute—the Nationa Graphical Association, representing print the TUC, which has been asked self-supporting." craftsmen—requested the meet- as a matter of urgency to con- Both sides in ing with Mr. Jim Mortimer, the ACAS chairman. Its purpose is the unions involved. to explain fully the progress request came from Mr. Bill on negotiations with the Keys, the general secretary of Observer on new rates for the the Society of Graphical and 50 machine managers in the paper's machine room.

But the NGA seems set to do little more than place Mr. Mortimer in the picture. The general secretary, who returned union will then wait to see how at the weekend from an official far Mr. Mortimer can take the visit abroad, will study the posiissue, though there were no tion and Mr. Keys' request plans at the weekend for the today and is likely to reply

vene and chair a meeting of over cuts in the Corporation's Allied Trades and chairman of the TUC's printing industries

committee. Mr. Len Murray, the TUC

### WEEK'S FINANCIAL DIARY

The following is a record of the principal business and financial engagements during the week. The Board meetings are mainly for the purpose of considering dividends and official indications are not always available whether dividends concerned are interims or The sub-divisions shown below are based mainly on last

vear's timetable. TODAY

COMPANY AGETINGS—
Mary Age EC, 2.30

Triggend Processes. Winchester House, 77. London Wall. EC, 10.30

Longwar Company Canal Course Cou Prouse awdaw ing., hild Mesith Research law, Tst.,

The Observer yesterday con Mr. Les Dixon, the NGA firmed its position, both by president, said yesterday he was publishing in full its own board publishing in full its own board hopeful that some way could be statement announcing the found to prevent the newspaper closure notices, and by declaring in its editorial column that Mr. Dixon was less optimistic the newspaper could only reach about a possible intervention by agreements "that allow it to be

Both sides in the BBC dispute

orchestras, which has caused the first of this year's official Promenade concerts to be abandoned are also due to see ACAS today. to discuss the idea of mediation. • Further inter-union wrangling is expected today at a meeting of the TUC's finance and general purposes com-mittee, which is faced with taking a decision on calling on the unions involved in the Isle of Grain power station dispute to follow the TUC's proposals

for ending the dispute. The issue, which will also come before the TUC general council this week, was further exacerbated at the weekend by strong criticism of the TUC's position from Mr. Frank Chapple, the general secretary of the Electrical and Plumbing

### Labour and TUC plan to boost economy

By Our Lobby Staff
TRADE UNION and Labour
Party leaders will today try to agree on a new joint economic strategy based on a major reflation of the Fundamental to the strategy will be the imposition of selective import controls to ensure that the additional demand stimulated by it is not filled by imported goods but instead helps to boost sales of British goods

Also suggested is the creation of a new Stateowned investment bank and the introduction of planning agreement—both of which have long been discussed by the Labour Party.

A draft statement of th

strategy is believed to avoid the sensitive issues of incomes policy. This is despite the fact that both Mr. James Callaghan, the Labour leader, and Mr. Denis Healey, the shadow Chancellor, still believe that some kind of agreement with the unions over wages should be an essential part of a future Labour Government's economic stra-

tegy.
The document has been substantially revised since it was last discussed by the TUC liaison committee. At that time Mr. Callaghan argued that it should concentrate more on attacking the present Government's policies and less on trying to create new policies for a Labour Government. Others complained that it did not sufficiently analyse the reasons behind Britain's de-

posed seemed to have stayed broadly the same despite the revision As far as import controls are concerned, the document makes it clear that they should be aimed at reducing imports from other industrialised countries rather than from the developing world. No sectors are named as

cline. But the remedies pro-

specifically needing such pro-tection, but the idea seems to se that import penetration ceilings would be introduced across a wide range of industries to ensure that imports did not increase their share of the British market.

If approved at today's meting of the TUC liaison committee, the document will have to be formally agreed by the executives of both the Labour Party and the TUC.

# **Anchor Chemical** chairman change

Mr. Bryan B. Pugh has become deputy managing director of chairman of ANCHOR CHEMI- URM, will become vice-chairman. CAL in place of Mr. H. K. Justi, who has resigned from that position but continues as a nonappointed to the Board of LLOYDS BANK INTER-NATIONAL from September 1. executive director.

Mr. Justi, who was appointed chairman last year following the sudden death of Lord Hewlett, offered his resignation as chair-man because of demands made upon him as chief executive of man because of demands made retired from the Foreign and upon him as thief executive of Commonwealth Office in 1979. Sartomer Industries Inc., of the His last post was UK Ambassa-U.S.

Mr. M. R. Luthert, executive UNITED RUM MERCHANTS to director of Lloyds Bank Intertake up an appointment in mational, has been appointed deputy chairman of the BRITISH COMMON-OVERSEAS AND COMMON WEALTH BANKS ASSOCIA chief executive of that company. the is a director of Booker Mc TION for 1890-81. The chairman Council and chairman of the is Mr. Ronald S. T. Robbins group's spirits, liqueurs and in-manager of the chief London ternational trading division. Mr. branch of Canadian Imperial Stanley Thompson, at present Bank of Commerce

TODAY

COMMONS-Debate on Opposi-

tion motion on the Govern-

ment's damaging policies

towards publicly owned and

supported industries. Motions

on MPs' salaries, pensions and

ORDS—Housing Bill, report.

Motion on EEC supplement-

ELECT COMMITTEES -

Energy on Government's

nuclear power programme. Witnesses: Friends of the

Earth; 4.15 pm; Room 8. Treasury and Civil Service on

monetary policy. Witnesses: Mr. Gordon Richardson,

Governor of Bank of England.

4.30 pm; Room 15. Public

Accounts on role of Comptrol-

ler and Auditor General. Wit-nesses: Mr. John Garrett, MP, Sir Douglas Henley,

Comptroller and Auditor

General, 4.45 pm; Room 16.

TOMORROW

COMMONS—Criminal Justice

LORDS - Motion on Lords

expenses and ministerial and

other salaries and pensions

order. Housing Bill, report. SELECT COMMITTEES—De-

fence on D Notice system.

Witnesses: New Statesman,

Sunday Times, Mr. Leonard Dourie. 10.30 am: Room 8

Treasury and Civil Service on

Prof. D. Laidler. 10.45 am:

WEDNESDAY

COMMONS—Civil Aviation Bill,

monetary policy.

stages.

Orders.

Northern Ireland

Witness:

allowances.

ary revenue order.

Parliamentary business third reading. Criminal Jus-tice (Scotland) Bill, remaining stages. Northern Ireland

Sir Willie Morris has been

He will succeed Mr. Henry Hankey, who will retire at the end of that month. Sir Willie

LORDS—Debate on European Air Fares Ground Game Bill, second reading.

Orders.

SELECT COMMITTEES—De fence on strategic nuclear weapons policy. Witness: Mr. David Greenwood. 10.30 am; Room 8. Education, Science and Arts on the first scrutiny session 1980. Witness: Mr. Mark Carlisle, Education Sec-retary. 10.30 am; Room 6. Energy on nuclear power programme. Witnesses; Central Electricity Generating Board. 11 am; Room 16. Public Accounts on role of Comptroller and Auditor General. Witnesses: Sir Douglas Henly, Comptroller and Auditor General 4 pm; Room 16.

THURSDAY COMMONS-Coal Industry Bill, remaining stages. Coal Industry (Borrowing Powers) Order. Magistrates Courts (Scotland) Bill, remaining Bill (Lords). LORDS — Broadcasting Bill, second reading. Short debate

on parole system. SELECT COMMITTEES-Home Affairs, sub-committee on

race relations and immigration on racial disadvantage. Witnesses: Civil Service De-Unions. 4.30 pm; Room 15. FRIDAY COMMONS-Motions on EEC

documents on New Zealand butter and protection of workers from exposure metallic lead compounds.

# Judging burglar alarm clauses

BY OUR INSURANCE CORRESPONDENT

IT HAS long been insurers' normal practice, when providing crime-loss cover on goods attractive to thieves, to require the installation and maintenance of anti-theft devices. Where, for example, insurers stipulate burglar-alarm, they put into the policy they issue a particular

This requires the policy-holder to keep the alarm in efficient working order, to keep it under a proper maintenance contract with the burglar-alarm company fitting it, to summon that company immediately there is any defect, and to have the alarm set and operational when premises are closed for busi-

Though the purpose of all these clauses is the same, their precise wording varies from insurer to insurer, as does their legal nature. Sometimes the clauses are written as warranties, so that breach goes to the root of the contract.

But more often they are written as conditions precedent to liability, or simply as exclusions. Wherever possible, the practice of the courts now seems to be to construe such clauses as exclusions, applicable, if at all, to the particular claim when it occurs.

Of interest to policy-holders with burglar alarm installations, to insurance brokers, and to insurers themselves, is the report of the dispute in Melik and Co. v. Norwich Union, on which Mr. Justice Woolf recently gave judgment. The case is reported in [1980] 1 Lloyd's Rep 523 and noted at para. 127 of the June issue of Current

Melik and Co, through brokers, had burglary cover with Norwich Union. A clause in the policy required the burglar alarm to be kept in efficient working order and in full operation at all times when the premises were closed. The alarm was of the silent kind that sends a warning to the alarm company's control centre.

On December 20, 1977, a line fault was detected - the telephone cable had been cut in a manhole outside the premises. The alarm was switched, to give an immediate audible warning, the police were asked to make extra patrols, the Post Office and the alarm company

were advised. The brokers twice confirmed to Melik and Co. that they were still covered but did not refer back to insurers.

On December 22 there was a burglary. Insurers refused the claim, saying that the alarm clause had been breached, that the alarm had not been kept in efficient working order, nor kept in full operation at the crucial time

The dispute was complicated by the broker's assertion that there was cover. But leaving this aspect aside and concentrating on the straight argu-ment between policy-holder and insurers, the judge had much of interest to say on the meaning of the alarm clause.

In his view "keeping in an efficient working order" is not an absolute obligation. The policy-holder only fails to keep if he knows of the facts giving rise to inefficiency, or ought to to know by exercise of common care. And, once he knows, he must be given sufficient opportunity to get the alarm in an efficient state again.

Because he must be given time, it cannot be said that the policy-holder, taking immediate action, doing all he reasonably can, is in the short term failing to keep the alarm in full opera-

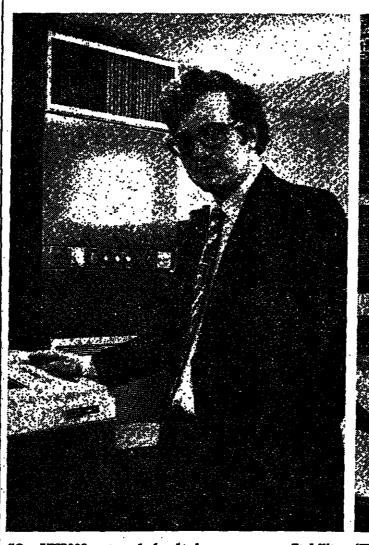
The judge also held that on the facts, the alarm was operating efficiently. It was the exter-nal cut cable that prevented it doing its job of communicating the fact of the burglary through the telephone system.

A nice point, but it is always ecessary to construe conditions precedent and exclusions, restrictively. The Norwich-Union clause spoke of the burglar-alarm installed at the premises." and, clearly, these words were not apt to cover the cables outside, however essential they were to the alarm's operation.

Undoubtedly it is possible for insurers to devise words apt to deal with both installation and communication and to eliminate the interpretation of the word kept " adopted by the judge.

But is this reasonable? In the case of most hazardous goods, insurers would doubtless say "Yes." But as ever, policyholders and their brokers may

# What if you chose Hewlett-Packard as a computer partner?



"Our HP3000 systems helped to increase our profitability, improved merchandising control and minimised wastage."

-Roger Lawson, Data Processing Manager, Harris Queensway Group.

Harris Queensway-one of the UK's leading carpet and furnishing groups-has grown from £9 million to an annual rate of turnover of £150 million in the last five years. To keep pace with the more demanding data processing requirements that came with expansion, the company installed two HP3000 computer systems and is now installing a third.

At the group's Orpington headquarters, the first system supports 35 terminals co-ordinating sales analysis, stock control and merchandising information for the group's 360 retail outlets throughout the country, as well as performing most of the day-to-day accounting transactions-purchase, sales and nominal ledgers. A further HP3000 is being added to cope with the continually expanding requirements.

second HP3000 with 20 terminals controls the movement of supplies and orders. Customer requirements are 'phoned through daily to the warehouse and immediately entered into the system which prints the next day's cutting and dispatch instructions. Cutting wastage has been significantly reduced and control over manufacturers' supplies is much tighter.

Says Roger Lawson, "We were impressed by the HP3000's excellent operating system with its integrated IMAGE data base. QUERY (the data base enquiry language) gives us instant access to vital information. Our DP costs are only a small proportion of our turnover, yet the increase in efficiency is substantial."



"We chose the HP1000 as best on the grounds of cost, adaptability and the ability to expand. We were also impressed by the company's good reputation in process control.

—David Stidolph, Data Processing Manager, BICC General Cables Limited.

At their modern Wrexham Factory and warehouse BICC General Cables Limited manufacture and store conduit wiring, surface wiring and armoured cables for despatch to 31 regional depots which supply the electrical industry.

The problems of handling some 4,000 varieties of cable with differing colours, thicknesses and lengths led the company to install an HP1000 minicomputer to replace the ageing control system at their warehouse.

Implemented at modest cost, the new automatic ware housing system resulted in significant improvements in reliability and flexibility over the original logic hardware At the group's central carpet warehouse at Swanley the control. It also enabled warehouse staff to be constantly on the factory floor instead of spending too much time at a remote control console.

The system prepares statistical reports that were not previously available, and there is tighter control over stocks



### You too could count on results

Hewlett-Packard makes a range of computers, terminals and peripherals from desk-top models through minicomputers to powerful multi-terminal data base and distributed systems. They deliver computing power to fit your changing levels of need.

HP brings to its computers the same quality of manufacture, reliability and support services that customers have come to expect from HP's electronic, medical and analytical instruments and systems, semiconductor components and personal calculators.

The world-wide Hewlett-Packard Corporation achieved over £1440 million in sales in 1979-45% of this business was in electronic data products.

### Hewlett-Packard in Great Britain.

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A working partnership.

A working partnership with customers is Hewlett-Packard's approach to business, from the definition and fulfilment of computation needs to providing first rate after-sales service. Computer systems support services offer a choice of options tailored to our customers' needs. They range from planning and installation, training and consulting, software support, through to hardware maintenance and computer supplies. HP has invested heavily to support systems sales with customer support centres, throughout the UK. As well as extensive on-site training programmes in customers' premises, HP runs two major training centres of its own-at Manchester and Winnersh, near Reading.

Whatever you choose, you are assured of responsive and reliable service from professionals.

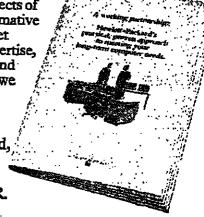
### Leasing-our own finance company.

Many companies are aware of the benefits of leasing. Hewlett-Packard Finance Ltd has developed leasing and financing plans to help customers who prefer this method of acquiring advanced systems and other equipment.

### Aworking partnership with HP. HP is dedicated to

excellence in all aspects of business. This informative management booklet summarises the expertise, resources, support and computer products we bring to customers.

For a free copy, write to: Ken Peck; Hewlett-Packard Ltd. Winnersh. Wokingham, Berkshire, RGII 5AR.



• MATERIALS

Keeps the

A WATERPROOFING mem-

brane to prevent the migration

of water through concrete and

masonry has been introduced by

Fosroc Construction Chemicals,

Vimy Road, off Leighton Road,

Leighton Buzzard, Beds LU7

ways, reservoirs and sewage

plants, and the extra heavy duty

400 Grade (2.7mm thick) is in-

tended for bridge deck water-

preofing. It can be applied to

most surfaces provided Jiffy

The company says the material is constructed from a

formulation of premium grade

bituminous resins modified with

synthetic resins, with an ex-

ceptionally strong reinforce-ment layer to withstand punc-

ture and severe stress.

**6 INSTRUMENTS** 

**Testing of** 

Seal primer is first applied.

water at

7LF (0525 373773).

are needed.

bay

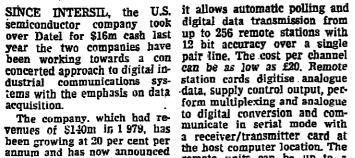
### COMMUNICATIONS

# Will transmit data around the plant

The company, which had rebeen growing at 20 per cent per annum and has now announced a number of new products in both device and system areas. One of the most interesting has been named Remdacs and

remote units can be up to a mile away.

Thus, in complex control



system environments, the sub-

### Terminal equipment A FURTHER generation of com- the same size screen but a selec-

It consists of a range of Teletype compatible equipment in-cluding the UTS 4020 cluster controller, two displays UTS 10 and 20, the latter for editing, and the UTS 40 user program-

The cluster controller can support up to 12 of the UTS 20 workstations and is designed for on-line and interactive process-ing. Some 16 peripheral devices can be accommodated.

Both the 10 and 20 work-stations have 12 inch CRT and detached keyboard; UTS 40 has 236 1010).

More from 65 Holborn Via-duct, London ECIP 1AB (01-236 1010).

munications terminal equip- tion of four pluggable keyboards ment has been announced by is available, and it can be pro-Sperry Univac, designated UTS grammed using UTS Cobol grammed using UTS Cobol which is offered on the company's 90, 80 and 1100 host systems. The terminal can have up to 64k bytes of user memory. Program cartridges plug into the back of the devices to provide different functions and these also make it possible to update the system with new

ephancements. The system and application development software offered includes control program, UTS Cobol, interactive program generator and edit processor.

**O TRANSLATION** 

# Electronic phrase book

award to Wimpey

national wiew printing works clearance which involves the

in London E1 has been awarded to Wimpey Construction UK dations of dock warehouses previously on the site. Some of

under a design and construct the existing warehouses are to

will be provided at the building Piling work on site is now

on a 13-acre site in Pennington substantially complete and the

Street. The 466,000 square feet first phase project is due for steel framed main building will completion in November 1982.

consist of both new and refur-bished premises which promise ultimately to be one of the lar-bouse at Cocklebury. Chippen-

gest new industrial sites in ham. Wilts., under a £659.000 London.

**Factory in Cornwall** 

CONTRACT WORTH about £4m Cardrew Industrial Estate,

and Co., at Redruth, Cornwall, 9,755 sq metre factory, annexe has been awarded to E. Thomas and paint store of 596 sq of Ponsanooth, member of metres, two storey offices, fac-

This is being built to meet ancillary buildings.

the the increasing demand for Factory will be single storey

Case's range of construction and have a structural steel

equipment including crawler frame, rendered Dado walls,

loaders and dozers and will with insulated metal cladding

employ about 200 people on the and a metal deck roof.

Additional printing facilities rooms and storage areas.

will translate what is fed into it appropriate sentences from the into another language is still a 14 categories and it is also long way off, a useful half-way possible to translate up to 2,000 house has emerged from Sharp

display unit into which modules can be plugged to allow trans-lation of 152 selected, frequently used sentences into another tongue.

ties ranging from things that available later. might have to be asked at air-A search function using the 205 2333).

FIRST PHASE of News Inter-

to build a factory for J. I. Case

Mowlem Group.

ALTHOUGH THE device that keyboard and display finds the specific words. It is even possible to alter key words or

normally encountered are done

stantial quantities of cabling

The company sees a large future market for this kind of equipment, perceiving the trends in control technique in terms of more and more distributed intelligence, the use of digital transducers, solid state motor control and in general the reduction of the number of people interposed in the control loop.

To help potential users in assessing the product, the company is offering evaluation kits costing £680 in three configurations.

In the device area the comhas announced the pany has announced the ADC817, a compact hybrid device for analogue to digital conversion with a conversion time of only two microseconds. The circuit, has five pinprogrammable input voltage ranges and serial or parallel data output.

Other devices include a new liquid crystal display driver and a low noise chopper stabilised operational amplifier.

More from Intersildatel (UK), Snamprogretti House, Basing View, Basingstoke, Hants RG21 2YS (0256 57361).

### @ PUBLICATIONS Maintaining

sewers

LESS THAN 5 per cent of England's 124,000 miles of public sewers are large enough for a man to enter-the rest can only be inspected by closed circuit television.

Internal sewer surveillance is expensive, and a programme to inspect every UK public sewer ICL mini-computer prices cut once every 20 years would cost about £6m a year in contract payments (excluding precleaning and additional labour) and, putting the matter into perspective, a 1 per cent renewal programme would cost roughly £200m a year.

Obtaining the best value for money from surveys, improving understanding of sewer damage and deterioration in order to limit the proportion of sewers requiring examination, and learning which defects are serious enough to justify attention, are problems facing the National Water Council's stand-

of both brick and pipe sewers-"Manual of sewer condition classification"—now available will able later. A formulation at £6 (plus 40p p & p) from More from Sharp House, NWC Publications, 1 Queen Gate, London SW1

TRENT REGIONAL Health Authority has given the first phase for its third District

General Hospital for Leicester-

shire .5 John Laing Construc-

It will be known as Glenfield District Seneral Hospital and

tion u.der a contract worth

construct, on starts this summer.

It should be completed in three

years time. Buildings will then be commissioned and the first

Among the awards is a £11m

warehousing scheme at Bristol

for which Angus McDonald is

the architect, while more ware-houses are to be built at Leatherhead, Surrey, at a cost

It is understood that a major

project for the company next year will be a £6m industrial

development at. Tonbridge,

Kent. It is due to start soon

struction is carrying out a £3m

office refurbishment project in

South Audley Street, London

W1. The company says it pro-

In the meantime, Crouch Con-

of £3m.

after Christmas.

£9m awards to Crouch

CONTRACTS worth well over poses to retain the refurbished £9m have been won by Crouch offices as an investment.



the Racal-MESL portable sensor provides an invisible radar screen which will detect anyone trying to gain access to it

# Signals approach of intruders

ATTEMPTS TO tamper with under a conventional marker Racal states that traffic passing aircraft while they are cone of the type often used at close to the protected zone or aircraft while they are unattended on the ground will airports. be foiled by a new transportable radar alarm developed by

**e** SECURITY

Racal-MESL in Scotland. The device was originally designed following a specific request from a major European airline. It weighs 12 kg and is of a vertical format that allows it to be concealed, for example,

DATA PROCESSING

SOME 17,000 of ICL's 1500

of scale and also some rationali-

averaging 25 per cent have

with 8 kilobytes of storage costs

Thus, a basic 1501 machine

become possible.

and as a result of the economies

The previous 33 variants of this

sation of the range, price cuts to five, based on the 1501 and

system,

suit the user's needs so that any intruder moving into the protected area (walking or crawling) will activate the This can be a siren. flashing light or a radio link to some other warning system.

series have now been reduced

the larger screen 1505, both of

which can be used indepen-

dently or with a common disc

Maximum main storage on

just over £2,500 while the larger both models has been increased SW15 1SW (01-788 7272).

small animals or birds straying into the area will not trigger the system.

The company foresees many other uses for the device such as protection of high value lorry loads, and in storage

More from the company at Preston Road, Linlithgow, West

optical fibres A DEVICE that can be used with great ease to measure the

ttenuation in lengths of optical 10 megabyte disc system, suit- to 32 kB and a new 5+5 megafibre has been introduced by Biccotest, Delamare Road, Cheshunt, Hertfordshire EN9 Series minicomputers have now able for use as a stand-alone byte fixed and exchangeable been sold throughout the world or distributed processor can extension disc drive has been be obtained for under £9,000. additionally made available. 9TG (Waltham Cross 29011). Fibre diameters up to 125 There are also additions to the software including a new microns can be accommodated and bare terminations are emissue of the disc-based compiler

and an improved business transployed prepared, perhaps, with the BICC optical fibre cutting action language. Both disc and tool. They are simply inserted into detector and source sockets on the front panel. communications software have ICL is at Putney, London

Then, attenuation is shown on a three digit liquid crystal dis-play up to 60dB with a resolution of 0.1 dB. To eliminate end effects,

after the unknown length has been measured a very short-length is connected between the sockets and this reading subtracted from the original one. The nett value is the true attenuation of long length. The instrument is provided ith a horizonetal platform which allows the parallel fibres to be turned through 90 degrees, giving easy exit from a drum while the panel remains

Atlas Copco compressed air systems. A force made



### • PUMPS

### Among the claimed advan-tages of Jiffy Seal are flexibility, Submersible resistance to puncture and abrasion, and easy installation. Neither heat nor special tools hydraulic Two grades are available. The 140 Grade (1.4mm thick) is suitable for floor slabs, tunnels, pump roofs, car parks, basements, sub-

WHEN water has to be pumped from depths of 30 feet or more there is always the problem o where to position the power where to position the power init be it a diesel engine or an electrically powered unit he almost certainly has to he located some way down the

This problem it is claimed can be overcome by using the Hydrainer hydraulic sub-mersible pump manufactured by Ponwood Engineers and distributed by SLD Pumps.

Main roles for the Hydrainer are said to lie between conventional diesel non-submersible pumps and the submersible

electric pump. It is supplied with a diesel-hydraulic power pack and can be mounted on a road trailer. One of the two models svallable will handle slurry and sludge. The 4-inch Hydrainer is

stated to give a maximum lift of 70 feet and can be run continuously. Full details can be obtained from SLD, Portobello Industrial Estate, Chester le Street, Co. Durham. (0632 404611.)

### • COMPONENTS Keyboards trom Sweden

A VARIETY of keyswitches, keyboards and related acces sories made by Witsbo Elektronik AB of Stockholm are to become available in the UK through Cosmocord: Eleanor Cross Road, Waltham Cross, Herts (0992 716666)

Included are high performance reed switches and long life low-hounce mechanical types. Options include low profile angled top and alluminated styles with a choice of colours and legends.

### Scope of machines widened Corporation in Japan. numbers in the standard sen-It is a pocket calculator-sized ing technical committee on tences to suit the requirement. keyboard and liquid crystal The unit has a dot liquid crystal display of 23 characters sewers and water mains. It has produced a report which will roll from left to which sets out standard terright if more than 23 characters minology and methods of are involved. Modules are recording the internal condition

£17m printing works £10.6m Laing contract

available for English, German. There are 14 categories of Spanish, French and Japanese; busizessman's/tourists' activi- Italian and Portuguese will be

port and customs to sightseeing. Thorp Road, Manchester (061

he refurbished to form plant

contract from Wavin Plastics.

Project involves building a

tory link, attached canteen, and

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America's most dynamic and fastest growing metropolitan areas - Denver, Colorado.

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multi-use property in the center of the energy-rich Rocky Mountain region. 228 acres

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3600 South Yosemite, Suite 900, Denver, Colorado 80237 (303) 733-1100 A development of M.D.C. Corporation, Denver, Colorado

the work that can be carried available is edit/count in which out on the AM Varityper Comp/ Set phototypesetters has been and editing text on the screen in "the foreground" while typeextended by the release of two setting previously edited and One of these allows the ground." Alternation in the section of the new software packages.

machines to be used in the socalled "foreground-background" made in which two operations previously recorded text in the are able to progress at the same background. made in which two operations

Leicester, and the two storey

building will be finished in brick to blend in with the new

Community Rospital alongside. Preliminary site works, including roads, have almeady

been completed at a cost of

offices as an investment.
At Crawley, Sussex. Crouch

Construction is undertaking two

schemes for the Borough Council. Total value of the

centres. is about £1m.

Restaurant

at Gatwick

WORK HAS started on a new

a 16-year old building found to

be inadequate for present demand at Gatwick Airport.

rooms and two floors of lettable

Work will be carried out by

local company James Longley

and Co., and is scheduled for

completion towards the end of

They will

comfortably

improved facilities for spec-

sit more

tators and players.

for community

EFFICIENCY AND scope of time. One of the pairs of tasks the operator can be scrolling txet in 'the back-Alternatively, the operator can key, count and record on to a floppy disc in the foreground while typesetting

A sort/merge routine has also become available; this allows alphabetical or numerical sorting to be carried out in the production of items such as classified advertisements, small

directories and parts lists. The new routines require additional floppy disc capacity and random access memory. More from the company at 44 Church Street, Luton, Beds.

# Chivers secures £10m worth

AWARDS TO W. E. Chivers conversion and Sons are worth over £10m, Laboratory, Chilton (for the and include headquarters for Science Research Council) and factory heating installation in Intel Corporation (UK) at

patients could be admitted in the spring of 1984.

New hospital will be built in PSA on benalf of the Ministry of Defence will cost £1.4m. the grounds of the Leicester rrith Hospital on Groby Road, Other work concerns major

Rutherford tion, Swindon Heating Installatogether worth over £1.1m.

for the PSA.

St. Martins Hospital, Bath, Swindon, valued at about £1m; Swindon, valued at £3.1m. Subsidiary company, R. J. £108,000 electrical installation

A net teaching block at Chiswick School for the London contracts worth over £4m for £79,000 West London office deve-Borough of Hounslow is worth Thamesdown Borough Council lopment; and, finally, the com-(elderly persons housing) and pany is to carry out factory workshop at Gosport for the a building and civil engineering and warehouse projects on its PSA on benalf of the Ministry maintenance contract at Kemble own site in Devizes and under

tions, has started work on a Read and Partners has a take a commercial development Heating and plumbing sec- at Bournemouth.

More Than Builders Finance, Construction (0462) Hunting 4444 Gate

Mine-shaft

equipment

A SECOND order for mine

shaft mechanical handling

field has gone to Matthew Hall subsidiary, Qualter Hall This is for Wistow site, down-

cast shaft. This together with

work already secured for the apeast shaft, brings the value

of shaft works awarded to the company to £2.5m.

equipment in the Selby Coal-

# Busy in London and south-west

WORK IN central London and Work is starting on a £761,000 quarters in Tavistock Place the south west of England supermarket shell and car park where the basement and ground covers six contracts, together worth more than £3m, awarded to Rush and Tompkins. Largest project is an £889,000 design and build contract for Wessex Regional Health Authority for which the com-pany will build three threestorey blocks of flatlets to provide staff accommodation at

the regional spinal injuries unit, Odstock Hespital, Salis-

project in Weymouth, Dorset, floor will be fitted out to form for Durward Kingsley Estates which is to be occupied by restaurant. Keymarkets. Further

In London, the company has started on a £632,000 sevenstorey office block in Berners Street, W1, for the Berners (St. Marylebone) Property Trust. Work has also started on a

£560,000 refurbishment at the

### **Lovell builds warehouses** THREE CONTRACTS, together dated ground, with power-float-

worth £1.3m for the construct finish floors. An Atcost contion of 15 warehousing units in crete column and steel roof Sussex, Middlesex and North- frame structure is being used £4.7m staff restaurant to replace to Lovell companies.

(Southern) has started work Three-storey building will for Standard Life Pension have staff restaurant facilities Funds on the construction of for Standard Life Pension on the ground floor with plant three single-storey warehousing units with integral doubleoffice space above and will be storey office accommodation. of reinforced concrete with aluminium-framed bronze-linted glazing.

The estate is close to Heathrow arrort and the M3 motorway. The units will have structural steel frames on piled foundations, power-float-finish floors, WORK AT Milton Keynes,

> cladding and asbestos roofing. Y. J. Lovell (Building) has ings, which will subsequently be demolished.

brickwork and metal sheet

lopment programme will have a steel frame with concrete slab FURTHER development at the and column bases blockwork facilities.
All England Lawn Tennis Club and asbestos sheet cladding to Monk

well as provision of other blocks at Bunting Road, Northampton, for Laws in Hunt In- Wattston, near Pontypridd. dustrial Developme

The buildings—fon a green welded steel pipeline; and at £3m and it is planned to complete the project in time for next year's Championship.

The buildings—fon a green welded steel pipeline; and at field site—will have a concrete Maesteg, 7.2 km of 200 mm base and strip forting foundament welded steel pipeline is to be toos formed on bibro-consolilaid.

British Transport police head-

amptonshire have been awarded with plastic faced metal panel and brickwork cladding and At Hanworth trading estate, with deep profile asbestos sheet Feltham, Middlesex, Y. J. Lovell roofing.

# Housing and pipelines

Bucks and in Yorkshire and. ladding and asbestos roofing. Wales, is worth more than At Shoreham-by-Sea, Sussex. £1.2m to A. Monk and Co. Company is to build 36 two-

begun erection of three ware- storey dwellings for private sale housing sections constructed in under a £596,000 contract from part over existing storage build- Milton Keynes New Town. Site is at Down Barn, and the basic tumber construction with brick The new building, which cladding wil consist of 24 forms part of a phased redeve- houses of three bedrooms and houses of three bedrooms and garage, and 12 flats of two and bedroom with garage

Monk pipeline division at Wimbledon is to be under.

taken by W. S. Try. One of the main aims is to provide better seating on both North and South stands of No. 1 Court as warehousing units in three list a rerouting of a pipeline; in the main stands of No. 1 Court as warehousing units in three list a rerouting of a pipeline; in the main stands of No. 1 Court as warehousing units in three list a rerouting of a pipeline; in the main stands of No. 1 Court as warehousing units in three list a rerouting of a pipeline; in the main stands of No. 1 Court as warehousing units in three list are resulting of a pipeline; in the main stands of No. 1 Court as warehousing units in three list are resulting of a pipeline; in the main stands of No. 1 Court as warehousing units in three list are required. the mountainous area of some 2,400 metres of 12 inch

months under a contract worth around £260,000.

### new staff facilities, including a Further work in London includes a negotiated contract for office refurbishment at the

British School of Osteopathy (worth several thousands of pounds) and a £100,000 contract for alterations to the preparation areas within the food halls at Debenhams store at Welbeck Street, W1.

Work here includes stripping out the second to sixth floors, fitting false cellings, installing

air conditioning etc., and build-

ing a plant room and boiler

At Rye Lane, London S.E.15,

the company has a £im contract

for gutting a four storey build-

ing, strengthening the structure

and introducing new floors and

London

house.

### A £2m job Refurbishing for Sleeman AWARDED TO the principal work in

contracting company for Exerier Building and Construction Group, Sleeman Construction, is a £2m contract for the refur. DRAC THREE LONDON refurbishing, and erection or new accomment contracts are worth about modation, to provide a further 52.3m to John Lelliott, and in-home for the Royal Masonic clude a £1.6m project to refur- Benevolent Institution at bish East India House, Regent Bournemonth, Hampshire. Street, London, W.1, for Liberty

The home will include medical treatment facilities, and lies in its own landscaped grounds which extend down to the sea. In all, the site covers about five acres.

Contract is due to start within the next few days and should be completed within 18 months.

### IN BRIEF

and introducing new noors and walls to form a new restaurant Chartered quantity surveys for McDonaid Golden Arches E. C. Harris and Partners, has bean appointed by Tag. Ely. E. C. Harris and Partners nesses been appointed by Taff-Ely Borough Council to provide full service for two Internal construction of the Zetland Arms public house at major council house refurbish ment projects in Rhydylelin, ment projects i is to be completed within six near Pontypudd where \$400,000 will be spent on improving 61 houses.

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EDITED BY CHRISTOPHER LORENZ

## THE MANAGEMENT PAGE

# How Reed is shifting its strategy from recovery to expansion

BY CHRISTOPHER LORENZ

MALCOLM GLENN has plenty of experience of ailing com-panies. A Briton with a top-notch pedigree as a North American turnaround specialist, he has just returned to Britain to sort out one of the country's best-known problem businesses.
Not only have its profits
slumped to perilously close on
zero over the last three years,
but it is now particularly
exposed to the deepening
economic recession.

Faced with a similar wave of pressures, many managers in other companies are simply going under—or at best doundering, content to muddle through from day-to-day and week-to-week, leaving tomorrow to look after itself. Yet Glenn not only still devotes precious time to planning for the development of his various pro-ducts and markets into the late 1980s, but takes most day-to-day decisions in the light of that

"When a business starts to suffer, a poor management will take short-term decisions." he says. "A good one will-get its longer-term priorities sorted out, and stick to them even if it means a painful couple of years in between."

This does not mean that Glenn is a slave to his plans; Glenn is a slave to his plans; Over the past three years, indeed, he and his parent com- under Lord Ryder's successor, pany are currently discussing Sir Alex Jarratt, the Reed ways of making them more flexible. What it does imply is that a carefully planned short-collection of businesses into a and long-term strategy underlies financially sound enterprise; its almost everything he does. Prowided he can show his managers from almost 200 per cent to just that while effective planning 34 per cent, for example. Though may increase central control still a conglomerate, it has been and impinge upon their made more manageable, and is independence, it also helps now—in general—very tightly them do their job, his approach run. Of the few remaining

irom

tive of Reed Decorative Pro- most urgent need of restora- in several ways, including the exporter, ducts, the paint, wall-coverings tion and repair.



Reed International, one of the largest British-based multi-nationals. To the public, the division is best known for its wide range of "Crown" paints, its "Polycell" pastes and fillers. and its stylish "Sanderson' wallpapers and fabrics.

To the business community, on the other hand, its image is largely negative. Under its traditional name of Wall Paper Manufacturers (WPM), it has had a troubled performance record for well over the 15 years that it has been part of Reed: it was taken over in 1965 by Reed's then chief, Don (now Lord) Ryder, as part of an ambitious expansion programme which ended in the mid-1970s with Reed facing a debt crisis. will gradually percolate down trouble spots, it is the sizeable his 12,000-man company. trouble spots, it is the sizeable wallcoverings side of Decora-Glenn is the new chief execu- tive Products which is in the that it played a significant role Quebec is a substantial

recovery has surprised even Sir Alex's most ardent admirers before this crowning success. The turnaround is the result of ordination and control. Behind both lay not only the

mind-concentrating clarity of a gerial management in three key ways: to clarify the group's overall direction, and then to steer along it; to reconcile the constituent businesses' competing claims for resources; and to some subsidiaries in Canada and at home, the system is also proving increasingly helpful at divisional level and below.

prized is perhaps the ability to prices judge between the relative value and potential of disparate es-"our apples pears," as Sir Alex calls them. An "interactive" planning system of this sort is relatively rare, even in those multi-pro-duct companies which can match the agglomeration of businesses with which Jarratt initially had to deal: it was only three years ago that top management was forced to face the reality that Reed had as many

Of these benefits, the most

tween them. The influence of the new planment programme should not be thanks in large measure to a anyway. But Jarratt is adamant choice of timing and acceptance competitiveness and and do-it-yourself division of The rapidity of Reed's or rejection of proffered prices, ability.

as 60 different businesses, with

precious little connection be-

recovery has surprised even Sir Close observers of the pro- Quebec's improved perform-Alex's most ardent admirers— gramme will have noticed that ance contributed to a remark-and there were many even Reed has frequently pulled back able recovery of Reed's North from selling both the massive divestment ahead. The most obvious exprogramme undertaken since amples are two large paper 1977-Reed has shed a third of mills, in Ontario, Canada, and

crisis, but a new and highly partly the result of the more systematic planning and control disciplined approach the com-system which has helped top pany now takes to both divestment and diversification," says Jarratt. With the help of its "apples and pears" planning system, the board was armed throughout the three-year period with a series of detailed calculations of the cash flow strengthen the centre's opera-tional control. As Malcolm and profit implications of self-Glenn has found, in trouble-ing a particular business at a ing a particular husiness at a particular price, and at a particular time. Without these, it might have been tempted to sell several businesses just as fast as possible, and at giveaway

This is not to claim that Reed was able accurately to forecast the best time to sell its un-wanted assets. Instead the planning system gave management an indication of the likely implications of shedding one business or another, in any one of a number of possible circumstances.

The often misunderstood difference between planning and forecasting is also illustrated by the case of a second Canadian mill, in Quebec. At

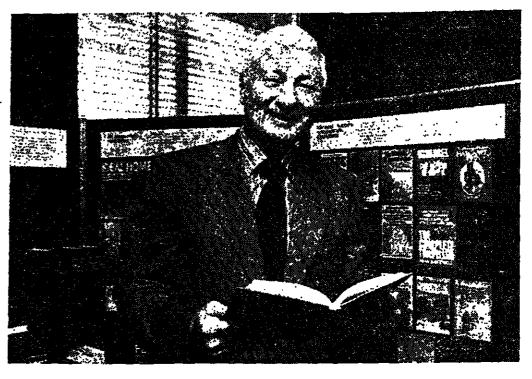
from selling troublesome American pulp, paper and businesses, before finally going packaging: from bare break-ahead. The most obvious ex-even in 1977-78, these North American operations turned in profits of film the next year. its assets—and of an all-round Natal, South Africa, eventually and more than double that tightening of the group's co- sold for £36m and £37m respec- amount in 1979-80, when their Rather than a sign of managerial vaciliation, "this was that of the Reed empire as a partly the result of the more disciplined approach the company now takes to both direct."

would pretend they forecast extent of recovery. It would be astonish. ing-and a fluke-if they had, the impossibility accurate forecasting in today's business environment. important thing is that they detected the right trends and warned the management off selling Quebec for the moment -instead encouraging it to approve a major investment project aimed at increasing Quebec's profitincreasing Quebec ability still further.

With pulp and paper still a sharply cyclical business, Reed has not closed the door on the sale of Quebec. But for the moment it slots into the corporate portfolio as a healthy cash cow," with a high price tag for any potential purchaser.

What if-or when-the cycle again plunees downwards? Even if Reed's planners do not precise timing and shape of the one stage. Quebec was together downturn, they will have alerted with Dryden on the "for sale" the management to the likely list. Then, in 1978-79, came a short- and long-term impact of ning system on Reed's divest- sharp increase in profitability, the various options for Quebec.

exaggerated; many of the dis-revival of the newsprint market what Jarratt calls "the what-if? posals would have occurred and a slump in the parity of syndrome." More explicitly, he the Canadian dollar; since argues that Reed's planning has enabled it to take decisions "in this boosted its a more structured way, having profit- worked out what the implica



Jarratt, Reed's chairman and chief executive (top), says its new planning system helps the board judge between the relative value of its disparate businesses—"our apples and pears." A divisional level, Malcolm Glenn (below) finds it helps him to "take a deep breath and have another look



# Getting a tighter grip on the grass roots

"PLANNING IS not something But this is not to say that either faith in the value of its plan- tion, at both conferences and about whether you can meet bility in the way his divisional

The speaker is Sir Alex Jarratt, one of Britain's most in the priority he has given to ing that planning cannot

1.0

that alternative "scenarios" of the future are combined with a enterprises? depth of statistical analysis which would be unacceptable

planning at Reed International and the rest" — which frightens With Reed now apparently pants."

Jarratt's commitment to plan- poised on the brink of a new

which forces you to think more forecasts which have under- for a broader balance of company you're managing. I civil service planning of the counter-cyclicality and greater most in the future. don't know how you can run a past 20 years. One of the most international content, can longmistakes, and

Only time will tell, but Sir " Planning Alex is hopeful: enthisiastic yet realistic senior to many top managers.

The property one of the property of t advocates of corporate planning. Jarratt recognises that it is ways you might go, and to set His enthusiasm is self-evident the theoretical side of planning up some priorities or combina-"hockey-stick forecasting, tions of strategy," he says, presenting a stark contrast in since he took over in 1975. His many companies away from character with what many of realism is echoed in his warn-trying to mould their own his predecessor's critics—and character with what many of future in a systematic fashion, admirers - call Lord Ryder's replace the intuition and even if this is the only way to more intuitive style of "hunch" which are so import—avoid being swamped by all the managing Reed's expansion in ant in decision-making; instead, unpredictable pressures of the 1960s and early 1970s; some he argues, it helps structure today's business environment use the phrase "seat-of-the-

It is the divestment phase of ning goes back to his days at phase of expansion, both at Reed's planning which has so the Treasury in the mid-1950s. home and abroad, Sir Alex's far received most outside atten-

detached from reality, that the be or his planners share the ning effort faces a particularly business schools. And it will be those requirements, and if not, plan is handled at the centre simplistic belief in single-line stiff test. In the renewed search the division's husinesses the

trying to find ways of running their established businesses in a more disciplined way. Sceptics who argue that planning is an ivory-tower activity, of interest only to planners, chairmen and executives, should also have much to learn from Reed's experience.

### Intrusion

Whereas planning for rationalisation and diversification can be a once-and-for-all effort, and in many companies is tailored to cess in which their existing nelp decision-making only at plans had been matched against board level, Reed's approach is intended to be broader and continuous. This means that it has This was a herculean task had to be designed to involve for Reed's five-man planning and assist managers at various team, even with the help of levels down the organisation, computers and a mass of inforboth at divisional level and

directors, as he would have done when the system was being introduced in 1977-78. "The divisions are increasingly understanding themselves." he says.

Radical It would be surprising if it

were otherwise, given the impetus of a strong and successful top management which not only places great embasis on the need for self-q: "ing and what Jarratt calls "continuous renewal." but al. onefully plots performance at a b-divisional level against its own very detailed idea of what each particular business should be

able to achieve.

Sir Alex's contention that planning helps the divisions themselves is certainly reinforced by Malcolm Glenn's six-year experience in several Reed divisions, including his current tenure as the head of Decorative Products. But it also supports the view of a leading British business school academic that, whereas Jarratt is reputed for his "decentralised" organi-sational style, his planning system has actually shifted considerable management control to the centre.

Like most managers down the Reed organisation, Glenn reacted negatively at first to the increased intrusion and paper work associated with the new planning system. But he now says that it has brought divi-

clearer about what sort of per-purpose? " says Glenn. "People formance it wants from the in the division hadn't thought divisions," both in general and clearly in that way before. It's in terms of specific performance likely to produce some pretty measures (he quotes the defini- radical conclusions." tion of cash flow as one

you think much more clearly so keen to secure greater flexi-

which forces you to think more forecasts which have under for a broader balance of thorough analysis of diversification-long-term strategy and to annual of the division's businesses, the deeply about the nature of the pinned much of the misguided businesses, in terms of both tion options which will attract performance, he suggests. On plan is sent to headquarters the longer-term plane, Glenn each December for scrutiny and Yet the most significant aspect argues that "it's quite useful possible amendment in discusbusiness without trying to do intriguing elements of Reed's term planning help the company of its planning is arguably its to have something which forces sion. The actual business plan of its planning is arguably its to have something which forces sion. it within certain sets of object own planning is the way avoid its own past problems and everyday impact. It is significant you to stand outside your review is held in March, just not only to Reed itself, but also business, take a deep breath, to other companies which are and have another look."

As for the annual business plan, and the division's performance against it, he says Reed robust about making you justify the existence of your business," and remains "even now that they've got some money in the bank."

of date," says Glenn.

tion of allowing such changes without the usual, "often pretty In the debt- and crisis-ridden rough," debate between the division and the centre. "The days of 1977-78, when the planning system was just being introduced, this self-justification was required from each of the 60 businesses, as part of a process in which their existing a series of alternative strategies prepared at the centre.

mation from outside sources This included possible economic Thus when Jarratt says trends, and an analysis of the Reed's planning effort "has average (or "par") perforhelped make us more surprisemance of an international crossfree," he no longer applies the section of companies in every "us" just to his fellow relevant industrial sector. (The operation of Reed's planning system will be examined in to

### Radical

Now that strategies for each business have been agreed between Reed and the various divisions, the central planner use outline strategies for പപ്ര only on an exceptional basis - normally when market or other environmental factors undergo a substantial change. "You don't expect a strategy to change that much. Otherwise isn't strategy," says John andler, Reed's Planning Chandler.

Director. If the relationship between Reed and its divisions now has a-stronger top-down component, so, in future, may that between some of the divisions and their individual businesses. At Deco rative Products, for example, Malcolm Glenn is introducing what he calls "task planning" for his division's five main businesses. The tasks will be set at a central level, "so that people are forced to think, and

a real dialogue can take place." This is not the only part of Glenn's divisional recovery programme which resembles the route taken in 1977-78 by his parent company. Like Jarratt and John Chandler, he has instigated a "strategic analysis" of his division, redefining each sional management two essen- activity into clearer market First, "Reed has become a lot clearer about what sort of performance it wants before the segments." We're asking 'who buys our product, and for what purpose? " care Clara to the segments."

It is the unusually fastmoving nature of Glenn's con-Second. the system "makes sumer markets that make him entity would lose control." Divisional managers in many

other companies would echo Glenn's view of this dilemma: "We want the flexibility; the centre needs the control," But few central managements can have had such a salutary recent experience as Reed's of losing grip over a subsidiary. As Glenn points out, it was the problems of a relatively small subsidiary. Reed Paper in Canada, which made a major contribution "By June it could be out its debt mountain.

By the same token, it was the While deviations from plan debt crisis which helped create are obviously permitted-with the classic circumstances in which radical change of any the agreement of headquarters the original plan is not actu-ally revised. This is the change ning system, and tighter control) Glenn advocates, though he incan be introduced into a comsists that there can be no ques-tion of allowing such changes a crisis, but it had a strong new chief executive who identified himself forcefully with the new division and the centre. "The concept. And there was his day you easily get a plan varia-tion is the day you destroy the managers, who "were not com-

whole system-the corporate mitted to defending the past," to quote John Chandler. Finally, Chandler's planners themselves were starting with a clean slate: none had worked at the centre of Reed before.

Many companies have tried to introduce radical new planning and control systems without the impetus of all these four factors —of those already featured in this series of articles, Ciba-Geigy and Shell are two examples - but few have out at least one of them.
As with Shell in particular,

Reed seems to have succeeded —so far at least—in using its planning system as a catalyst for something far broader than just a more effective planning process - namely a frequent questioning of assumptions and performance. To quote Sir Alex Jarratt, it is bringing "not only a sharpening of the (management) system, but a different way of thinking."

C.L.

# Lloyds Bank Group Results

# First six months of 1980

Profit before tax of the Lloyds Bank Group in the first half of 1980 was £145m. When adjusted for inflation it was £63m.

This compares with the previous six months' figure of £152m, or £89m when adjusted for inflation.

The Group now operates in 46 countries around the world, employs 59,000 people and has total assets of £19,600 million.



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Adviser to the Borrowe BANCO CENTRAL, S.A.

# The delusion of exchange rates

BY SAMUEL BRITTAN

Chancellor of the Exchequer ferent animals. The yen as were to make a surprise measured in the foreign exannouncement saying "I have change market appreciated by instructed the Cartesian and the control of the Cartesian and the instructed the Bank of England to intervene in the foreign competitive disadvantage suf-fered by British exporters at preciated by 27 per cent in exchange market to reduce the over the monetary guidelines.

I must emphasise that this is exact opposite of what Sir the nominal and the real appre-Geoffrey Howe has actually said. ciation stakes. The German Moreover Sir Geoffrey would never have used the verb
"instruct" in front of "Bank
of England." But such an
announcement would be received with such delight by so many industrialists and trade unionists that the argument is worth pursuing.

Doubtless the initial impact would be a fall in sterling perhaps by much more than anyone bargained for. By creating the sterling to buy up foreign currency, the Bank could ensure that the depreciation was no flash in the pan, but went on and on. Even then it is highly likely that producers would find that their competitive improvement was purely temporary, and that not many years later they would find themselves at the same competitive disadvantage, but suffering it at a lower nominal exchange rate and higher inflation rate. The table brings out very

> NOMINAL AND REAL EXCHANGE RATES % Changes 1973 to 1979

clearly the difference between

_	Effective spot rate	Effective real rate
Switzeriand	+67	+16
Germany	+36	+4
Austria	+18	+8
Japan	+15	-3
U.S.	2	-5
France	10	-3
UK	27	+19
Italy	45	-7

the nominal-or effective spotexchange rate—and the real rate. The latter is adjusted for the relative movement of prices in each country and its main competitors. The index used is domestic wholesale prices of non-food manufactures, averaged among countries on a trade weighted basis.

It can be seen that the two other way?

† Indicates programmes in

BBC 1

6.40-7.55 am Open University (UHF only), 9.55 Noah and Nelly, 10.00 Jackanory, 10.15

Tarzan, Lord of the Jungle. 10.35 Why Don't You? 1.30 pm Heads

and Tails. 1.45 Midday News. 2.05 Your Songs of Praise Choice. 2.40 "Oklahoma." Film musical. 4.55

4.55 Olympic Grandstand: Swim-

7.40 Comedy Classic: The Good

Britain's

ming, diving and gymnastics.

5.50 Olympic Grandstand.

5.40 Evening News.

8.10 Panorama:

7.15 Ask the Family.

LET US suppose that the kinds of rate are entirely difcent between 1973 and 1979. But the real exchange rate showed a modest depreciation. present exchange rates" and nominal terms taking the six added that this took precedence year period together, but there over the monetary guidelines. was nevertheless a real apprecia-

tion of 19 per cent. Switzerland stood high in both ciation stakes. The German mark experienced a hefty 361 per cent nominal appreciation, but only a modest 4 per cent real appreciation. No wonder German industrialists suffered so little, for all their loud-voiced complaints. Nor was there even all that much year to year variability in the real value of the mark. The "standard deviaof the latter from its tion trend was only about 3 per cent. The biggest deviations-in the 8 per cent to 9 per cent rangewere experienced by Switzer-

The exact figures are sensitive Canadian

Indeed the main interest lies not in the figures, but in the ex-planations provided. In extreme brevity they are that exchange rate changes are required both to offset international inflation latter-of which the impact of North Sea oil is the headline example - which account for the difference between real and nominal exchange rate changes. It took a decade of stagflation

to convince people that there was no enduring trade-off between inflation and unemployment. Must it take another decade to make us learn that national competitiveness in the face of real forces acting the

# Euro-law affects UK immigration rules

immigrant an absolute duty to immigrant status and history, the immigration authorities are not getting things all their own way. Earlier this month, the Luxembourg in Regina v. Pieck has in effect struck down the Home Officer's procedure for dealing with migrant workers from the EEC who enter

through our ports. If anyone in the early 1970s lic that our joining the Common Market would affect only our economic laws and could never have any legal effect upon our criminal laws-and many legal luminaries did just that-he must now eat his words. For the decision in Pieck has effectively ruled that a criminal offence under the Immigration Act 1971 cannot be applied to an EEC worker in this country; and to the extent that the offence might still be available it cannot in any event lead to a sentence of imprisonment even though the UK Parliament made the offence imprisonable.

imposes upon the intending section before the Stipendiary explained to the officer that he a limited leave to enter was to Magistrate at Pontypridd Magisdisclose to the immigration trates' Court, and a "notice as forgot. He was then charged officer everything relevant to his regards liability to deportation" was served.

Mr. Pieck is a Dutch national

and a holder of a Dutch passport. He first entered this European Court of Justice at country in August, 1973, and passport was renewed at the argued that the stamp in the of six months in which an Dutch Embassy in London, on which occasion he gave his residence as Cardiff. He entered this country again in December, consoled a doubting British pub- 1977, left in July, 1978, and entered one week later on July 29, 1978.

On each occasion that he

entered the UK, his passport was stamped by an immigration

officer with the date and place

of the words "Given leave to counsel also argued that his enter the United Kingdom for client had a right to move freely six months." At all times since his entry, Mr. Pieck has worked as a printer for Graphic Prints at Taffs Well, near Cardiff. The limited leave granted on July 29, 1978, expired on January 29, 1979. In March, 1979, Mr. Pieck sade the offence imprisonable. went, of his own accord, to the even if the initial leave imposed Section 24 (1) (b) of the 1971 South Wales Constabulary, on entry was permissible, breach Act makes it an offence for any explained that he had overalien (since 1971 the alien is stayed his leave, and asked for either by deportation or in-described as a non-patrial) to advice. He was advised to send prisonment. The stipendiary described as a non-patrial) to advice. He was advised to send

WHATEVER comfort there may be for the bureaucrat in the House of Lords' decision in ment for not more than six about his case was when he was ment for not more than six about his case was when he was ment for not more than six about his case was when he was the Home Office explained to the European Court that the produce his passport. He pieck was charged under that imposes upon the intending

(who has had some experience subsequently left and re (who has had some experience entered. In April, 1976, his of taking cases to Lucambourg)

has been going to send it off but avoid delay at the port of entry. It avoided the immigration with the offence of staying in officer having to examine each this country beyond January 29, national of a member State as he arrived in order to ascertain Last July, he appeared in whether the purpose of his court and pleaded not guilty. coming to the United Kingdom His counsel, Mr. Alan Newman was one giving him a right of entry under the Treaty of Rome. It meant that there was a period

### THE WEEK IN THE COURTS

BY JUSTINIAN

passport amounted to an "entry visa or equivalent document which is prohibited as a requirement for an EEC worker enterof entry into this country and ing the territory of a Common with an endorsement consisting Market country. Mr. Pieck's counsel also argued that his within, and stay in, the United Kingdom for the purposes of employment, and that the purported grant of leave to enter the United Kingdom limited to six months was in derogation of those rights. He added that, of it could not be punished overstay his leave in this his passport to the Home Office, magistrate at Pontypridd readily country; the offence is punish- together with an epplication referred questions of interpreta-

he wished to remain longer (as he was entitled to do) and, if appropriate, to apply for a residence permit. However sensible that system may be for a country like the United Kingdom that does not issue identity cards and has no registers of its population, nor requires aliens to register with the police other than in certain cases, it does not unhappily accord with EEC law. This was characteristic of the Home Office's soundly cavalier approach to the case.

The Government first argued that the phrase "entry visa" meant exclusively a documentary clearance issued before the traveller leaves the country of embarkation and arrives at the possession of a general resi- 1980.

endorsement on his passport or of a separate document. An endorsement on the passport at the moment of entry giving leave to enter was, it was claimed, not to be regarded as an entry visa. That contention was firmly rejected. The court held that "entry visa" covered any formality for the purpose of granting leave to enter, whatever may be the place or time at which that leave was granted and in whatever form it was granted. The Home Office will now have to abandon its prac-

tice of granting an EEC worker limited leave to enter, because, the court went on to say, any such limitation is incompatible with the EEC law conferring the freedom of move-

The third question answered

by the court is perhaps the most

startling to the English bureaucrat, and impinges most upon the English law relating to immigration control. The question asked was whether an EEC national who has overstayed the leave granted in a residence permit, which the various countries may properly insist that the obtains may punished by imprisonment and or deportation. In an earlier or be recommended for deporta-decision in 1977, the court had already said that penalties can have very law has weeked away me not be imposed in so far as an alien does not comply with national provisions prescribing

tion of EEC law to the European frontier of the disembarking dence permit. But what about country in the form of an the failure to obtain a special country in the form of an residence permit, possession of which may be imposed on an EEC worker?

The court positively ruled out any deportation for failure to obtain the special residence permit. But it said that the national courts could impose penalties for failure to comply with the terms of provisions relating to residence permits comparable to those attached to minor offences committed by nationals. That did not justify imposing a penalty so disproportionate to the gravity of the infringement that it became an obstacle to the free movement of EEC workers. Imprisonment would always be disproportionate:

denouement will be The entrant could decide whether ment to workers within the played out when the matter comes before the Pontypridd. Stipendiary Magistrates in the coming weeks. He will have first to say whether the offence of overstaying one's leave can apply to Mr. Pieck. The European Court's judgment indicates that there is no such offence at all applicable to an EEC worker to stay beyond the time for which leave to enter is granted. Any limitation has no legal validity. But, even if the magistrate upholds the charge, Mr. Pieck cannot go to prison pean law has washed away one little corner of our criminal law. \* Times Law Report; 17 July

# Sea Pigeon poised to win

Pigeon, who is poised to over-haul Boldhoy's record earnings Plate at Newcastle. In that twofor a gelding on the Flat in mile event Russian George this country, comes out again came with a wet sail in the at Ayr today. Already three closing stages to take second times a winner here. Pat place, half a length behind Muldoon's 10-year-old bids for

### RACING

BY DOMINIC WIGAN

his third course and distance victory in the mile and seven furlongs Tennent Trophy. George, Remezzo and Rheinman ner's enclosure, his three runs mount and victory. However, northern two-year-old of above success for Sea Pigeon could average ability. It will be both be hard to come by, for surprising and disappointing if Russian George poses a formid- he cannot make his pace tell

11.35 Open University. BBC-2 Wales—5.59-6.15 pm

BBC-2 Scotland-5.50-6.15 pm

BBC-2 Northern Ireland—5.50-6.15 pm Scene Around Six.

pm Look East (Norwich); Look

North (Leeds, Newcastle); Look

lands Today (Birmingham); Nationwide (London and South

East): Points West (Bristol); South Today (Southampton);

Spotlight South West (Ply-

LONDON

9.30 am Check It Out. 10.00 Wild, Wild World of Animals.

10.25 Mystery Island. 10.40 The World We Live In: "After the

world Pine Band." 12.10 Rainbow. 12.30 Doctor. 1.00 News at One. 1.20 Thames News. 1.30 Crown

Court. 2.00 Against the Wind (Episode 13). 2.30 Monday Matince: "Nobody Runs

4.15 Clapperboard.

4.30 Olympics '80. 5.50 ITN News. 6.00 Olympics '80.

7.30 Coronation Street. 8.00 Grundy. 8.30 World in Action.

9.00 Best Sellers: "The French Atlantic Affair."

10.00 News at Ten followed by Thames News Headlines.

10.30 Best Seilers (continued).

12.15 am Close: Cyril Lyckham reads Lord of the Evening.

Ali ITV regions as London

except at the following times:—

Northwest (Manchester);

lands

mouth).

Matince:

Forever

BEC-2 England only-5.50-6.15

Mon's Beau; while Sea Pigeon —attempting to give Russian

George 23 lbs-finished fourth. This afternoon Sea Pigeon reopposes Russian George on 4 lbs better terms and, with a shorter trip to his advantage, I believe he will gain his revenge.

Although Richards youngster, Only four-Move Off, Russian Mercy, has yet to make the win-—stand between Jonjo O'Neill's to date show him to be a

THE EXTRAORDINARY Sea able obstacle on their running against some modest rivals in this Tam O'Shanter Stakes from which Steel Pass is an absentee. Another useful performer who can get off the mark today following several place efforts is Souliotissa, among the runners for the St. Quivox Stakes. Recently this Captain Rogersowned What A Pleasure filly failed by just a neck to open her account at Newcastle.

AYR -Soulietissa

THEATRES ALBERY, S. From 9 am 01-836 3878.-CC 579 8565. Group bkgs. 836 3862. Air cond. Evs. 7.45. Mats. Thurs. & Sat. 4: OLIVER! CHILD HALF-PRICE. ALDWYCH. S. 826 6404, CC. 379 6233. (10-6), Sats. 10-4), Info. 836 5332, Fully ar conditioned. ROYAL SHAKES PEARE COMPANY, Part 1: Ton't, Thu. 700, West 54

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2.00.

2.00.

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Wood. & Sci. of Hugh Manney. Selfbinding. "Oxford Mail." A stage entertainment of rare order . 2 virtueso
performance by Hugh Manning." Oxford
Times. ONE WEEK ONLY. Till Sat.

10 CRASHINE:
10.25 am Oliver and the Artful
Dodger. 11.10 Young Ramsey. 1.20 pm
Celendar News. 2.00 About Britain.
12.30 Monday Marines: "No Highwa
in the Sky." 7.00 Calendar (Emlen

RADIO 4

(5) Stereophonic broadcast 5.00 am As Radin 2, 7.00 Mike Read. 5.00 Peter Powell, 11.00 Simon Bates with the Radio 1 Roadshow, 12.30 pm Newsbeat, 12.45 Paul Burnett, 2.00 Newsboat. 12.45 Paul Burnett. 2.00 Andy Pocolos. 4.31 Richard Skinner, including 5.30 Newsbast. 7.00 Steyin' Alive. 8.60 Jaya Cooper. 9.50 News-boat. 10.00 John Poel (S). 12.00-5.00 em As Radio 2

my 6.27 Acting Bulletin, 8.55 Pause for Thought, 9.03, 10.03 Sperts Desk, 10.08 Jimmy Young (S) including 11.03, 12.03 Sperts Desk, 12.08 pm Ray Mogre (S) including 1.02, 1.45, 2.03, 2.45 Sports Desk, 3.03 Olympics 80 with John Dunn: Sparting action from Meacow, plus music, 7.02 Much More Music (S) including 7.50 Sports Desk, 8.02 Fcik Ca 2 (S), 9.02 Humphrey Lyttelton (S) with the Best of Jazz, 9.55 Sports Desk, 10.02 Pop Score, 10.30 Star Spand, 11.02 Olympic Sports Desk, 17.16 Brian Mattnew with Bound Midnight, including 12.00 Midnight Newsroom, 2.02-5.00 am You And The Night And The Music (S) with Geeff Bennott.

### RADIO 3

#Medium Wave
#5.55 am Weather. 7.00 News. 7.05
Overture Concert: J. C. Bath, Handel,
Viveldi, Respict: (S). 8.00 News.
8.05 Merming Concert: Glinks, RimskyKorcalev. Challetysky, Glazunov (S).
9.00 News. 9.05 This Wick's Composar: Siberius (S). 10.00 By Arrengemont With The Composer: Violin and
Plano recital (S). 10.45 Music for
Guitars: Ser. Carelli, Grandoc Falla

### Radio Wavelengths

1053kHz/295m 1089kHz/275m 693kHz/433m

200kHz/1500m

Capital Radio: 1548kHz, 194m & 95,8vhf London Broadcasting

music by Johannes Bernardus van Bree, Přitzner, Shostakovich, Loewe, Brahms. 4.55 News. 5.00 Mainly for Pleasure with Richard Graves (‡ only from 6.20). 7.00 Haydri (\$). 7.30 Con-cert: Schnittke (in place of Proms). 8.25 America as Myth and Reality. 8.45 Concept Moralt Stycker, 9.60 BBC Radio London

5.00 am As Radio 2. 6.30 Rush Hour.
9.15 Entertainment in Town. 10,03 The
Robbie Vincent Telephone Programme:
News. humour. advice. 1.03 pm London
Live. Including 3.15 Swap Shop. 4.30
London News Deak, 5.35 Look, Stop.
Listen. 7.03 Black Londoners. 8.00
Question Time from the House of
Commons. 9.00-5.00 am Join Redio 2. London Broadcasting

# ENTERIAINMENT GUIDE

**OPERA & BALLET** 

COLISEUM, Credit cards. S. 01-240 5258.
Reservations 01-355 3161. ENGLISH
NATIONAL OPERA. Season coems July
31 et 7.00: Aida Aug. 2, 7.30: La Vie
Parisienne. COYENT GARDEN. CC. S. 01-240 1065 (Gardenharse credit cards 836 6903). THE ROYAL BALLET. Ton't 7.30 Giselle. Tomar. & Fri. 7.30 Rorace and Julier Wed. & Thu 7.30 Manon. Set. 2 pm 8 7.30 Swan Lake. 65 Amphl seats avail for all perts from 10 am on day of perf. GLYNDEBOURNE. 0273 812411/813424
with the London Philharmonic Orchestra.
Until August 11. Sold Out-possible
returns only. Youight & Thurs. 5.30: Der
Zauberfiote. Tomor. & Fri. 5.00: Der
Rosenkaaller. Wed. & Sat. 5.20: La
fedelta premiatz. Train departs: Victoria
2.52 pm.

SADLER'S WELLS THEATRE ECT. 337 1672. CC. 837 8956/7505. D'OYL CARTE IN GILBERT & SULLIVAN, EVG. 7.30. Wed. Sat. 2.50. Tonight, Tomor. & Wed.: The Mikado, Thurs., Fri. & Sat.

7.00. Wed. Sat. 2.00. Part 2: Tomor., Wed. Sat. 2.00. Part 2: Tomor., Wed. Fri. Sat. 7.00. Final perts. NICHOLAS NICKLERY by Charles Dicknos (Sold out) Nicholas Nickleby returns to Aldwych in November. RSC also at The Warehouse and Piccadilly Theatres.

AMBASSADORS TH. S 836 1171. CC 379 6565. Ers. 3. Fri. & Sat. 6.0 & 8.40 sharp! HAROLD PINTER THE HOT-APOLLO THEATRE S. CC. D1-437 2663.
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CAMBRIDGE 101-836 6056. Credit cards accepted. 01-836 7030. Mon.-Fri. 8.0. Thurs. 3.0. Sat. 5.0. 8.50. CHICAGO ELIZABETH SEAL JACQUIE TOYE. COLIN 8ENNETT. HOPE JACKMAN. BRIAN HEWLETT. LYNETTE BENTLEY. Anti-infiation policy! Seats at £1.50, £2.50. £4 in stalls & royal circles. 550 cash prizes at every perf. 379 5061. 639 6056. Student Nurses. OAPs Standby £1.50. JOAN COLLINS HOTLINE 240 5678. West End debut Oct. 21. Book Now.

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CRITERION. 930 3216. CC. 379 8565.
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Eves. 8. Fri and Sat. 6 & 8.45. Airconditioning. Robin Ray. Jonathan
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Barry Foster, Peter Bowles. Jan Waters
in a now play by Poster Nichols BORN
IN THE GARDENS. HAYMARKET. Theatre Royal IC. 01-830 9332 Eves. 7.45. Wed. 2.30. Sal. 4.30 and 8.00 LEONARD ROSSITER, PRUNELLA SCALES IN MICHAEL, FRAYNS: MAKE AND BREAK Directed by MICHAEL BLAKEMORE.

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PRINCE OF WALES THEATRE. 930 8581.
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and Moirs Regmong is MANAGETH.

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Sab. 5.30 and 8.30. ROYCE RYTON and
PAUE JERICHO IN THE OTHER SIDE OF
THE SWAMP BY ROYCE RYTON
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32 AMERICAN GEGOLO.CO. Props. 1.10.
32 AMERICAN GELLY (A). CAPITAL CITY
(U). Props. 12.45. 2.40. 5.25. 8.15.
51 THE LORD OF THE RINGS (A). SPECIFIC 2.00. 5.00. 8.00. CLASSIC. Leicester Square. UI-930 6915. ZOMBIES-DAWN OF THE DEAD (X) 1.40 (not Sun.). 4.55, 8.15. THE GREAT ERITISH STRIPTEASE (X). 3.50, 7.05.

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From the Producers of Pardon Mon AFaire COURAGE FUYONS (AA). With JEAN ROCHFORT and CATHERINE DENEUVE (English amb-tides). Props. at 2.00 (not Sun.), 4.16, 6.20 and 8.40. ODEON HAYMARKET (930 2738-2771).
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DAVID NIVEN. Seb. pross. Doors oden
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### ART GALLERIES

AGNEW GALLERY, 43, Old Sond SE, Wt. 628 6175. THE PORTRAIT SURWAYED TO THE PORTRAIT SURWAYED TO AUGUST. Mon. Frt. 9.30-5.30. Thurs until 7.

FINE ART SOCIETY. 148, New Bond SL W1. 01-629-5116, Closing July 25th WI. 01-525-5116. Closing July Administration of Victorian oils, water-colours and drawings. Mon-Fri. 10 am-5 pm. Sats. 10 am-1 pm. Until Job 24th. 19 am-1 york Spaces of Paintlings and Drawings Including words by Stanley Spencer. Paul Nash. Mathom Smith, Sutherland. Moore, Nicholson. Wyrdman Levis. Bomberg. By appointment only. 01-581, 2966. MATHAF GALLERY, 24 Moreomb Screet, London SW1, 235, 0010, Exhibition of Contemporary paintings of Kuwait, Oman and Saudi Arabic,

has outlined the others became of a licy of fair play and value for money, over from 10-330, am. Disco and too sections, glamorous, hostesses, exciting orshows, 189, Repent St. 734-0557.

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19.50 15.00 7.00 19.50 8.00

5.00 7.00

27 Opportunity to go to railway 21 Speckled crock in filthy and court (S) place (6) The solution of last Saturday's prize puzzle will be published with names of winners next Saturday.

land and Japan.

to the weighting systems used. They may in particular under-state the nominal depreciation of the U.S. dollar, because of the high weighting given to its counterpart. But elternative calculations would the general conclusions. The table is taken from a

paper on exchange rate policy by Prof. P. Korteweg of Erasmus University, Rotterdam. differences and to allow for in-ternational shifts in sectoral productivity and trading patterns. It is the changes in the

there is no exchange rate policy which will "improve" inter-

11.45 Weather/Regional News.
All Regional programmes as
BBC-1 except as follows:—
Cymru/Wales — 1.30-1.45 pm
Tredwt. 7.15-7.20 Wales Today.
7.20-7.45 Farming in Wales. 7.458.10 Heddiw. 11.43 News and
Westbook for Wales. Scotland-1.25-1.30 pm Scottish News. 11.45 News and Weather

for Scotland. Northern Ireland—11.45 pm News and Weather for Northern

F.T. CROSSWORD PUZZLE No. 4,327

ACROSS

9 Propellor that ventilates

10 Church official giving gender to name initially (6) 11 Part of New York set aside for redevelopment (4, 4)

employed (6) 14 Pudding for Dalmatian (7.3) 18 Everybody there admitting silver is fashionable (3, 3, 4)

with a border (6) tity of liquid (4, 4)

wit on literature (5-3)

36 The French examination is most up-to-date (6)

BBC 2 6.40-7.55 am Open University.

ring James Stewart.
8.00 Mid-evening News. 8.10 Dallas. 9.00 Rhoda: "Lady's Choice."

4.45 Newsround. 4.55 Go With Noakes. 5.25 Fred Basset. 5.30 Wedding Yells. 5.50 Nationwide. 6.15 "Shenandoah": film star-

11.00 Play School.
4.15 pm Play School.
4.40 Shake, Rattle and Roll.

Whale." 11.05 Little House on the Prairie. 11.55 The Animates. 12.00 pm Choriton and the Wheelies: "The Royal Wheely-

nuclear armoury, 9.00 Nine O'Clock News. 9.25 The Monday Film: "Billy Two Hats.' starring 9.25 Brass Tacks. 10.10 Best of Brass. 11.05 The Editors.

steeplejacks fashionable society enjoy (4, 5 Inlaid work of biblical

ship's company (8) 12 Upper-class fur that may be

22 Choral work from a book 23 Sweet and sour small quan-

25 Continental coach creating 19 Be in contact with notice and

DOWN 1 Practical joker hybrid ox hear (6)

2 Gaudy fish, I hush (6) 3 Place on top of table for insect (6) 4 Racing, for example, and stops ball with wine (5, 5)

6 Superintendent left remaining to observe direction (8) 7 Insect I give form to make a toxic neutraliser (8) 8 Steer to edge and come together (8) 13 Contrive dramatically to in-

struct and transport (10) 15 Dressing a boy in soil (5. 3) 16 Policemen measure beneath apartment (4-1) 24 First course for a beginner 17 Being barefooted, she loses badly (8)

> become a member (6) 20 Cook start of entree on metal grid (6)

RADIO 1

RADIO 2 5.00 am News Summary, 5.03 Steve Janes (S) including 6.15 Pause for Thought, 7.32 Terry Wogan (S) including 8.27 Racing Bulletin, 8.45 Pause for Thought, 9.03, 10.03 Sports Dosk, 10.08 Jimmy Young (5) including 11.03 12.03 Sports Desk, 12.08 om Ray

mont With The Composer: Violin and Plano recital (St. 10.45 Music for Guitars: Ser. Carelli, Granados, Falla (St. 11.15 New Songs for Counter-Tenor, Roccal: Ross Edwards, Colin Matthews (St. 11.45 Three Concertos (St. 11.45 Interest Played including 12.20-12.25 Interval Reading, 1.00 pm News, 1.05 Musica Auroa Ensembla (St. Elizabethan music, including 1.45-1.50 Interval Reading, 2.30 Matinee Musicale (St. 2.30 New Records of

ATV 10.25 am Sesame Street. 11.20 The Peper Lads. 11.45 Larry the Lamb in Toytown. 1.20 pm ATV Newsdesk. 2.00 About Srizain. 2.30 The Sest of Sellers: Dr. Strangolovo. 7.00 ATV Today. 12.15 am Something Different.

ANGLIA

10.00 am Something Special. 10.50
Child Life in Other Lands. 11.20 World
Worth Keeping. 11.45 Cartoon Time.
1.20 pm Anglia News. 2.00 About
Britain. 12.30 Monday Film Mafinee:
"Lust For Gold." 7.00 About Anglia.
10.00 News followed by Anglia Late
News. 12.15 am Reflection.

BORDER

10.00 About Turn. 10.25 How the
West Wes Won. 1.20 pm Border News.
2.00 About Britain. 7.00 Looksrownd
Monday. 7.15 Photography. 10.00
News Jand Border Weather. 12.25 am
Border News Summary. CHANNEL 1.20 pm Channel Lunchtime News, What's on Where and weather. 2.00 About Britain. 2.30 The Monday Matines. 7.00 Channel Roport. 10.28 Channel Lote News. 12.15 am News and weather in French.

GRAMPIAN 9.25 am First Thing, 10.00 About Turn. 10.25 how the West Was Won. 1.20 pm North News. 2.00 About Britain. 2.30 The Monday Special: "New York City Ballet." 3.30 Survival. 4.00 Casper the Friendly Ghost. 7.00 North News and weather. 7.10 Bailey's Bird. 12.20 am Relletions. 12.25 North Handlines.

Bird. 12.20 an North Headlines. GRANADA 10.00 am The Beatles. 10.15 Wild-life in Crisis. 11.00 Sesome Street. 1.20 pm Granada Reports. 2.00 About Stritain. 2.30 Monday Matineo. 7.00 Granada Reports. 12.15 am Superstar

10.00 am The Human Face of China.

10.25 The Lost Islands. 10.50 Sesame Street. 11.50 Larry the Lamb in Toylown. 1.20 pm Report Wost Headlines.

2.00 About Britain. †2.30 The Monday Matinee. 7.00 Report West. 10.28

HTV News.

HTV Cymru/Wales—As HTV West/

HTV General Service except:—12.00. HTV General Service except:—12.00-12.10 pm Trehetiau. 1.20-1.25 Penawdau Newyddion y Dydd. 1.25-1.30 Report

3 1215kHz/247m

9.45 Concert: Mozert, Bruckner. 9.40 Promenades. 10.05 Music for Lutes. 10.30 Jazz in Britain (8). 11.00 News. 11.05-11.15 Poulenc.
VHF only—Open University: 6.00-7.00 pm. For students in Radio Scotland and Radio Cymru areas only 12.00 Mid-night-1.00 am.

RADIO 4

6.00 am News Briefing. 6.10 Ferming Week. 6.25 Shipping forecest. 6.30 Today, including 6.45 Prayer for the Day: 7.00, 8.00 Today's News; 7.30, 8.30 News headlines; 7.45 Thought for the Day. 8.25 The Week on 4, 8.45 John Ebdon with the BBC Sound Archives. 9.00 News. 9.05 Start the Week with Melvyn Bragg. in., ul News. 10.02 From Our Own Correspondent. 10.30 Daily Service (5). 10.45 Story Time: "Moon in the Cloud." 11.00 News. 11.05 The Queen Mother: A radio biography. 11.50 Weigh-In: Facts and Icliaces of detings. 12.00 pm News. 12.02 You and Yours. 12.27 Brain of Britsin 1980 (S). 12.55 Westher. 1.00 The World at One. 1.40 The Archers. 1.55 Shipping forecast. 2.00 News. 3.02 Listen With Mother. 3.15 Alternoon Theatre: "Love on the Dole" by Ronald Gow (S). 4.45 Short Story. 5.00 PM: News. 5.50 Shipping forecast. 6.00 The Six O'Clock News. 5.30 Rumpole (S). 7.00 News. 7.05 The Archers. 7.20 Science News. 7.05 The Monday

Tonight. 11.30 Today in Parliament 12.00 am News. 12.15-12.23 Shipping forecast.
VHF—11.30 pm Open University.

CONGOR Broadcashing
6.00 am AM: Bob Hoiness and
Douglas Cameron. 10.00 Brian Hayes.
12.00 Max Millor; LBC Roports, 2.00 pm
Sue Jamason. 4.00 Max Millor, 6.00
Alan Clerk. 8.00 After Eight Special.
9.00 Mike Dickin—Nightline. 12.00
LBC Reports Midnight. 1.00 am Night
Extra: Tora Jefferios.

3.00—Joint Mercy\*\*\* 3.30—Sea Pigeon\*\* 4.00-Bertram Personnel 5.00-Lana's Secret WOLVERHAMPTON 2.15-Hot Press 4.15—July The Fourth WINDSOR -Think Abead 8.50-Salthouse\*

SCOTTISH 10.00 am About Turn. 10.25 How the West Was Won. 1.20 pm News and weather. 2.00 About Britain. 2.30 Monday Matinee: Terzan And The Great 7.00 Scotland Today News and High Summer Extra. 10.00 News and Scottish News Headlines. 12.75 am SOUTHERN

Wales Headlines. 2.00-2.30 Hemdde 7.00-7.15 Y Dydd. 7.15-7.30 Repo Weles. 8.30-9.00 Yr Wythnos.

10.00 em Focus on Wildlife. 10.25.
Little House on the Prairie. 11.20
History of the Motor Car. 11.45 Larry
the Lamb. 1.20 pm Southern News.
2.00 Houseparty. 2.25 Future Cop.
3.45 About Britain. 7.00 Day by Day.
10.00 News followed by Southern News
Extra. 12.15 am Weather followed by
A Woman For All Searches A Woman For All Scasons TYNE TEES TYNE TEES
9.20 am The Good Word and North
East News. 9.30 The Measterbuilderg.
9.55 The New Ed Allen Show. 10.20
The White Stone. 10.45 Bill Burred.
Documentary. 1.20 pm North East
News and Looksround. 2.00 About
Britain. 2.30 The Mackonzie Affair. 3.30
Bloomin' Human. 3.45 Kum Kum. 7.00
Northern Life, 12.15 am The Strength
of the Hills.

ULSTER

WESTWARD

10.00 am About Turn. 110.25 Laurel
And Hardy's Laughing Twenties.
1.20 pm Westword News Headlines.
2.00 About Britain. 2.30 The Monday
Matines: "Stranger On The Run."
4.12 Gus Honeybun's Birthdays. 7.00
Westward Diary. 10.31 Westword Late
News. 12.15 am Faith for Life, 12.20
West Country weather forecast.

YORKSHIRE

10.25 am Oliver and the Artful

BBC Radio London

Play: God's Choson Children. Fig. 400's Chosen Children. S. is Crowdie and Cream: Finlay J. Macdonald on his Hebridean boyhood. 9.30 Kaleldoscope. 10.00 The World Tonight. 10.30 The News Quiz (S). 11.00 A Book at Bedtime: "Summer Lightning." 11.15 The Financial World Tonight. 11.70 Today in Parliament.

6.00 am Mike Smith's Breakfast Show (S). 9.00 am Michael Aspel (S). 12.00 Mike Allen (S). 1.00 pm Lendon Today First Report (S). 1.10 Mike Allen continued . 3.00 Roger Scott (S). 7.00 Lendon Teday (S). 7.20 Adrian Love's Open Line (S). 9.00 Alan ("Fluff") Frogman (S). 11.00 Tony Myatt'a Late Show (S). 12.40 am Peter Young'a Night Fiight (S).

10.00 am About Turn. 10.25 The Lost Islands. 10.55 Sosame Street. 1.20 pm Lunchtimo. 2.30 Monday Matines: "The Angry Silence." 4.13 Ulster News Headlines. 7.00 Ulster Television News. 7.15 Portrait of the Artist. 10.29 Ulster Weather, 12.15 am Redvime.

PALACE S. CC 01-437 5834 From Thurs. 8.00, Fri., Set. 6.00 and 8.40. IESUS CHRIST SUPERSTAR. LAST 5 WEFKS.

15.00 15:00 1950

### THE ARTS

### Glyndebourne

## Die Zauberflöte

by ARTHUR JACOBS

gent and successful production barrier.

by John Cox. Benjamin Luxon, who appeared as Papageno when the production was new in 1978, shows himself again the almost perfect interpreter of the role. There is a ceaseless, spon-taneous-seeming animation in this Papageno — occasionally whistling his five-note theme, instead of playing it on his panpipes, or trying to relieve a ritual ordeal of silence by some impromptu bird-imitations. His vocal strength and subtlety are as admirable as ever, and, incombining comedy and pathos, satisfied. This much-commended the only thing he lacks which Geraint Evans had is a capacity

Two happy returns, and one suicide—easier, of course, when not quite so happy, mark the changed cast which is now to audience's tongue, but not imbe seen in this highly intellipossible even across a language

> Bernard Haitink, the conductor in 1978, was no less welcome back. Once past an uncharacteristic smudge of melody in the opening bars of the overture, his performance had the resource to bring both the weight and the rhythmic spring which the score needs.
> The woodwind of the London
> Philharmonic Orchestra responded with a ravishing realisation of the opportunities which Mozart provides,

Isobel Buchanan's return to the role of Pamina left me less young soprano-she is only 26 this year-gave out some beauto "milk" the audience's symtiful phrases, some less beautipathy, before the proposed ful, and was inclined to push

her upper notes. In the initial recognition scene between her and Ryland Davies, it was Mr. Davies' utterance that thrilled. and her acting of the fragile role failed to touch its centre.

Ryland Davies' full-voiced, nobly portrayed Tamino, and Rita Shane's exceptional Queen of the Night (no mere possessor of freakish high notes but a commanding dramatic figure) continue to adorn the cast and Glyndebourne's care over minor roles is fully sustained in the excellence of Hugh Hetherington's Priest. The production may be inevitably known (as Nicholas Kenyon suggested in his initial review) as "the David Hockney Zauberflote," with its fantastic animals and its striking scenic perspectives, but I shall remember it for many more pleasures than those.

### Covent Garden

# The Song of the Earth

by CLEMENT CRISP

An important fact in performance of The Song of the Earth is that its interpreters are very exposed. There is no fancy costuming, no opportunity to beguile the audience and corrode the text with acting, or by making delicious capital out of personality. The dancers dance, and if they are honest the choreography speaks through their bodies. So seemingly bare is MacMillan's manner that any attempt by a dancer to fill it 'interpret" the movement, destroys the work. But if as on Friday night when Song returned to the repertory, the cast trust the ballet and submit themselves to it, then the result is very fine. With Monica Mason as the Woman, David Wall as the Man, and Anthony Dowell as the Messenger, with a high-powered supporting group led by Vergie Derman, Jennifer Penney and Wayne Eagling, we saw a grave account which caught all the expressive force of this most

There is nowhere the sense. so clear in interpretations by Marcia Haydee, Richard Cragun and Egon Madsen, that the three principals belong inalien-ably together: this can only result from a cast working regularly as a team, and from that comradeship in emottion which is Stuttgart's special quality. On all other counts. though, Friday's presentation was committed, deeply communicative.

Monica Mason has ever been able to seem the focus of the hallet's experience. In the last song-The Farewell-she took us along the dark path that the Woman treads, and after what must have been a huge sum-moning of psychic and psysical energy, poured out its final torrent of pas de bourrée as an heroir statement in the face of desolation.

can sustain. Anthony Dowell effortlessly conveyed the inhuman quality of the Mes-senger: not a matter of the halfmask hiding his features, but of dancing given a complete inevitability. I thought Jennifer Penney better than ever in the scherzo "of Youth," enchanting in the sweetness of her dancing. And despite some rough edges Mahler's symphony for voices received a purposeful performance under Ashley Lawrence.

Eniama Variations completed the programme. For all the Royal Ballet's authenticity of style, there now seems a tendency to wallow in the emotions that surround the figure of Elgar. The economy with which Monica Mason and Leslie Edwards present their characterisations is still admirable; for some other members of the cast David Wall, playing with the dictum "less is more" dedicated simplicity, gave the might suggest a control of Man an unassuming dignity that means which would prevent the is exactly right—the only kind ballet becoming sentimentalised of "acting" which the ballet and quaint.

### **Holiand Festival**

serious ballet.

### Soldiers' Mass

by CLEMENT CRISP

regular visitor to Britain, the individual in combat. Through good years, which were The high-voltage action, evitably including a couple who very good, and bad—at the time characteristic of the piece exof the company's last appearof the company's last appearof the company's last appearof the description and alertvery eyes, and a sensitive boy inces here, with a repertory riddled with feeble American experiments-NDT has held our affections. Since the last London season in 1975, the troupe has developed a markedly different identity, thanks to the choreo their faces in agonised prayer graphies of its director, Jiri and collapse to the ground. Kylian Czech born, a Royal Ballet School student, a dancer with the Stuttgart Ballet, Kylian has brought a new dynamism to NDT's dance manner. I recently saw his latest

work, Soldiers' Mass (a setting of Martinu's Field Mass), during the Holland Festival. Kylian's style here, is in certain other of his ballets, has a high energy level, dance dedicated to the proposition that bodies are to be used to the full. below a *mezzo-forte* in such pieces, and much that is fortissino in dynamics. Soldiers'. These same forces (minus Mass is written for 12 men, clad Kruyser) gave a brave account in Maki-green shirts and with of the Stravinsky Symphony of trousers that end in vestigial Psalms, but—thanks to a seat gaiters, who are treated for the most part as a military squad ladies of the choir-I saw but By insisting upon groupings that evoke the disciplined

consequent community of feel-

ing, the occasional emergence

es of war. A cinsing corp de their vulnerability,

appears as a fleet, fraught vic- of the score. tim of the tempest of battle and the no less tempestuous matters phony and the Slovene Phil-Porcelija, and Bernard Kruysen

a noble baritone soloist. These same forces (minus nestling amid the skirts of the half the stage, and my view of Kylian's energetic choreography formations of men in batie, and allows no comment.

On the other work in the pro-

There was a time when the targent racing of the men con- the Swedish dancer Mats Ek. Nederlands Dans Theater was a veys the loneliness and dread of which is one of those ballets about unhappy teen-agers-intheatre, in which the men tear There used to be a fashion for off their sweat-soaked shirts such dreary epies 25 years ago and stand motionless, stresses in work-shop evenings of dance. further The present example comaccentuated when they class pounds its crimes of flat choreography and stale emoting with a gratuitous assault on Made with undeniable zeal, Bartok's second piano concerto. Soldiers' Mass receives dedi- The only merit of the event was cated, unsparing performance, to let us hear Daniel Wayen-One soloist, Chris Jensen, berg's strongly pulsed account

The Stuttgart Ballet and various post-Modern American of faith that are the text of experimentalists were also part the Mass, seeming especially of the Festival. Stuttgart's propiteous as he darts among his grammes allowed me to catch companions, then swings from up with John Neumeier's Lady the arms of two comrades of the Camelias which dates Musically the performance was from 1978. Well designed by excellent, with Utrecht Sym- Jurgen Rose, this takes three acts to do what Ashton achieves There may seem little that is harmonic chorus under David in 25 minutes with Marguerite and Armand. Narrative matters are com-

plicated by a parallel drawn between Dumas' lovers and Manon Lescaut and des Grieux. This conflation is cleverly devised, and the enterprise is well intentioned, imperfectly pinned into a mass of Chopin music, and extraordinarily bland. I saw Richard Cragun On the other work in the pro- and Birgit Keil as the lovers, gramme I can, alas, report fully. both working like beavers; my of a single figure from the This was Youth's Memories by emotions were not touched once. tion



# An 18th century garden

by COLIN AMERY

Claremont garden the earliest surviving examples a man-made laid out by Sir John Vanbrugh and Charles Bridgeman between 1715 and 1726 for Thomas Pel-ham-Holles, the first Duke of Newcastle. Vanbrugh's main contribution to the gardens was the design of buildings in the landscape. At Claremont he designed the castellated brick belvedere in 1717, and it is one of the earliest mock mediaeval buildings in England. Van-brugh was much influenced by landscape painters and his strongly romantic streak made him argue, for example, for the retention of the old Woodstock Manor in his proposals for the landscape at Blenheim. At Claremont, his tower was described by Colin Campbell as "singularly romantick" in his

Vitruvius Britannicus. Charles Bridgeman's main contributions to Claremont were the round pond and the grass amphitheatre. The idea of a theatre in a garden was derived Italian renaissance examples of theatres in gardens designed for the performance of plays and operas. In England, Alexander Pope's garden at Twickenham had its little theatre and Rousham and Stowe both have good examples. In the 18th century, the "prodigious grandeur" of the amphifête champêtre the great grass steps and slopes came into their own as viewing terror. theatre at Claremont was much own as viewing terraces for the theatrical events around the

William Kent followed Bridgeman and he softened the outline of the round pond and built a grotto and an island temple. In 1768 the Claremont Estate was sold to Clive of India when Capability Brown made the park much more informal. During the 19th century Claremont House (which is now a school) had a succession of interesting residents including Princess Charlotte in 1816, Queen Victoria as a holiday visitor, and the exiled King Louis Philippe of France.

The object of the National Trust's careful restoration has been to expose the elements of the 18th century landscape by closely examining the available historical evidence. Some of the later 19th century planting has preserved as part of the garden's total history. The lake demanded considerable restorawork including the

covers strengthening of the banks with about 50 acres and is one of timbers from diseased elm trees felled on the site. William "natural Kent's grotto and flint temple The first scheme was have both been extensively rebuilt and the great Turf Amphitheatre has been rescued from late 18th century planting and subsequent growth of shrubs and trees.

While there can be no doubt that the garden came into its own at the 18th century style fêtes (which were excellently planned and organised) Claremont is a garden to see at all seasons. Its size is intriguing. Visitors are seduced by the wellcontrived prospects into thinking that the garden is very large and rambling.

In fact, many visitors will agree with Thomas Whateley. who observed in his book Observations on Modern Gardening in 1765, that Claremont is place wherein to tarry with secure delight, or saunter with perpetual amusement."

It is a great joy to visit Claremont and feel, once again, part of a great English gardening movement. There are all the necessary 20th century comforts there too, including an exhibition about the history and restoration of the garden which is not to be missed.

Claremont Landscape Garden is on the Soth edge of Esher. on East side of A307: no access from A3 Esher by-pass. Open every day April to end October

### Guidebooks and tourism exhibition

The exhibition Guidebooks and Tourism: The British in Italy, to be seen in the British Library, Great Russell Street, London WC1 between July 25 and October 26, 1980, is a survey of the early guidebooks to Italy, in English and other languages, that were used by British travellers. The exhibition also seeks to suggest in words and pictures the reactions to their experiences (and to their guidebooks) of some of the more interesting or at least typical British visitors to Italy, from the Middle Ages down to

tour. guidebooks in exhibition are accordingly supplemented by engravings, souvenirs, travel documents, maps and itineraries, some of which are borrowed from institutions collections.

### **Wembley Conference Centre**

# First Nights of the Proms

by DOMINIC GILL

possible performances on tabe or disc for its cancelled live Prom programmes) was broadcasting Adrian Boult's recording of Elgar's oratorio The Apostles on Friday night, the BBC Symphony Orchestra was giving its "First Night of the OWD Proms " independently at

Neither, in the circumstances, as a very inspiriting affair. Nothing on the air can take the place of a real, live Prom direct rom the Albert Hall; and the Orchestra's own alternative event under the baton of Colin Davis, brave gesture though it was, and for the most part excellently played, had only the faintest flavour of the real thing. For a start, few open spaces in London come closer than the Wembley Conference Centre to reproducing the A Financial Times leading acoustics of an anechoic chamarticle last Thursday summed ber (and especially, as on Friday, without the hall's acoustic clouds in position: later concerts in the series willsound marginally sweeter). Few scores, either, are worse

suited to such a desiccated mismanagement of the affair by acoustic than Chaikovsky's B the BBC; and at the root of it

While Radio 3 (true to its flat minor piano concerto and all, the fundamental question Berlioz's Symphonie fantastique.
The Berlioz performance seemed to be happening somewhere at the wrong end of an eartrumpet: a sonority displaced and degutted, without any kind of immediacy, and with a slightly tinny edge. And even the most thunderous blitz-octaves of Cristina Ortiz—who launched herself with admirable fire into the Chaikovsky, to give what would otherwise have been an exceptionally strong and forceful account of the solo part-had the impact and resonance of a spoon smacking plasticine. Not all the jubilance of the 200 prommers who

> up for such basic sonic defici-A Financial Times leading up the main ingredients of this unfortunate dispute clearly: the obstinacy (and sometimes the regrettable inflexibility) of the Musicians' Union; the appallingly tactless

of financing. The damage done to the great fund of goodwill which undoubtedly used to exist between the BBC and musicians everywhere will take a long time to repair. But the two events of Friday evening only served to emphasise how much, after all, the BBC and its musicians need each other; how unthinkable any long-term breach must be: and that a permanent sofution of mutual benefit, inevitably discussed at Government out soon. More alternative Proms are planned for Wembley: on July

24, Charles Groves will conduct crowded the well of the stage. Chaikovsky's Fifth and songs from Mahler's Des Knaben nor the very evident warmth and goodwill of the audience. Wunderhorn; on July 25, the BBC Concert Orchestra gives a Viennese Night under Ashley some 2.000-strong (the Wembley Centre holds 2,500), could make Lawrence with Theresa Cabill; on August 1, Simon Rattle conducts Elgar's first symphony, and on August 11, Bernard Haitink, Mahler's First. The BBC were unable to book Pierre Boulez for their own Proms, but the Orchestra have scooped them: on August 15. Boulez has agreed to conduct a Wembley programme of Debussy, Bartok and Stravinsky.

### Guildhall

# Israel in Egypt by MAX LOPPERT

first half, the suavity of his

The Monterverdi Choir and ally copious second, in which in countertenors for the alto solo Orchestra brought the 1980 City an amiable succession of solos. music). If the results were duets and choruses the triumph mostly neat and professional of London Festival to an elating of Israel is celebrated. John close on Friday, with an account Eliot Gardiner's accomplishof Israel in Egypt grand in ment as a Handel interpreter span, urgent in progression, was particularly notable in the hardly interrupted in momentum. Such a description serves conducting style and care over to suggest the peculiar success of the occasion; for received opinion of Handel's oratorio discerns a work of uneven quality -"unsatisfactory as a whole and musically very unequal" is Winton Dean's pithy judgment and memory can supply a substantial number of perform-ances in which received opinion was supported rather than contradicted.

On this occasion the structure of the work emerged as purposefully calculated and dramatically fluent, the inspiration various in kind and high in character. An enthralling first half. almost exclusively choral. singers of soloist quality, among keeps the listener intent on the whom Mr. Gardiner had liberally punishment of Egypt; it is shared out the arias and duets

beginnings and ends of phrases being underpinned by an unerring grasp of Handelian design. Each of the famous examples of orchestral wordpainting made a great effect (the strings, buzzing like flies and then sinking in alarming changes of harmony to spread a thick darkness over the land." were controlled with expert point); yet there was no wallowing in the delights of Handel's musical imagery, no exaggeration of his dramatic

The excellence of the chorus owed much to its inclusion of balanced by the relaxed, lyric- (including three true-voiced

rather than anything more vivid, the method of allotment at tuned or unrhythmical phrase was allowed—a feat not always guaranteed by Handel soloists of more marked individuality. From Stephen Varcoe and Brian Gordon there was perhaps a want of sheer heft for the duet 'The Lord is a man of war "-but not of precise musicianship. The robust well-schooled tenor of Maldwyn Davies stood out for dramatic thrust. A too-relaxed tempo for "Thou shalt bring them in " proved mildly troublesome, two unstylish solo cadenzas rather more so (one, in "The enemy said." took the tenor William Kendall to an improbable C above the stave). Otherwise, only praise. The Guildhall acoustics may not suit all kinds of music equally well; for Handel in trumpet-and-drum vein it makes a happy choice of

### Wigmore Hall

### Winterreise by DAVID MURRAY

Almanac series concentrates upon song cycles, and Friday evening was given over to Schubert's Winterroise It was sung, of course, by just one of the Almanac group-Richard Jackson, whom fate chose to saddle with a bad cold for the occasion; as usual Graham Johnson accompanied. The Jackson cold may have enforced some cautious restraint, but it did not spoil a creditable performance. Well-studied and judicious, with a minimum of visible histrionics. Jackson's

account of the cycle betrayed little immediate edge of feeling: but that, I thought, was due less to vocal constraint than to the imperfect focus of workin-progress. No complaints about that: obviously the dramatic proportions of Winterreise can't be

the beginnings of the conducted broad lines with an assurance that goes far beyond 'prentice work Certain songs notably Frühlingstraum " and "Das Wirtshaus "-sat uncomfortably in the sequence, as if he were private

The current Songmakers' show). The opening and closing late-Romantic mannerisms Leiermann" were taken a fraction too briskly to suggest the despairing trudge of the one or the numb surrender of the other. Elsewhere there was much subflety, and an admirable virility of line that disdained easy pathos. The impression of self-effacing attention to the music was hearten-ing: I am sure that Jackson has a distinguished Winterreise in him, still a little way off.

Others have remarked on this

page that Johnson's sterling work with the Almanac-he is a great inspirer of singersleaves his actual playing several points behind. That is not always true, but it does seem that his busy musical life makes too little room for practice. On the one hand, there was continuous sense and lively intelliworked out in private, and already Jackson conveys its the fumbling effort intelligence in his contribution to this Winterreise; on the other, the fumbling effort intelligence in the fumbling effort in the fumbling effort intelligence in the fumb "Erstarrung" and "Die Post was a heavy distraction-and surely he cannot have meant the pianissimo falling leaves of "Letzte Hoffnung" to snap like firecrackers? Much of the first undecided about the exact half was just too loud (many Royal Northern C points they should make (or a dramatic fp became a simple Music, has succeeded feared to let their sentiments f). And he must expunge the Deane in this post.

'Gute Nacht" and "Der leading a strong crescendo to a sudden wilting piano: it contradicts both the letter and the spirit of Schubert's spare, sturdy writing, diluting its tragic power with mere "expres-

### Imperial Tobacco continue support for Glyndebourne

Imperial Tobacco are to continue their support of opera at Glyndebourne by sponsoring Rossini's Il barbiere de Siriglia. one of the two new productions

in the 1981 Festival. This will be the fifth new production at Glyndebourne with which Imperial Tobacco have been associated. Previous productions were Fidelio, 1979, Die Zauberflöte, 1978 and 1980 Don Gioranni, 1977 and 1978, Der Rosenkavalier, 1980.

### Arts Council appointment

The Arts Council has appointed a new chairman of its music advisory panel, John Manduell, principal of the Royal Northern College Music, has succeeded Dr. Basil

### OLYMPICS, FUTURE AND PRESENT—by MICHAEL THOMPSON-NOEL

# Not Shame Games for Coe or Ovett Slow advance to victory for Watson

WILL THE Olympics survive? the various Olympic committees

Mexico, in 1968, indicated that and officials have triumphed of the most compulsive Olympic
they would not. Munich, in once again over the objections showdowns since the war. They 1972, suggested that they could and the doubts of those in the not. And the bungling of Mon-sidelines, be they Prime Mini-treal in 1976 very nearly con-sters or whatever. firmed that they should not. Yet here they are againharassed to be sure, but undetrievably damaged long before Saturday's curiously immaculate opening ceremony.

### Limocent

They are the Shame Games or the Propaganda Games, anything but the innocent celebration of youth and world fellowship that Baron Pierre de Coubertin had in mind in 1894 when he told an international conference at the Sorbonne that there should be a revival of the ancient Games as a means of combating the feuding and dissension between nation and nation, and the commercial tainting of sport

that was apparent even then. Yet despite the Carter boysigns and words from Moscow, to say nothing of the "edited" metres record at 3.21.1. To New Zealand, former mile television images, suggest only round out the picture Overt's record-holder and third in Oslo one thing that the extra best time for the 800 metres is last Tuesday—also not at the ordinary single-mindedness of 1.44.1; in Prague in 1978.

Games—Coe will win both titles,

Whether the medals won in

Moscow will indeed be tarnished, as Mrs. Thetcher has mably under way. For many, claimed, only time will reveal. the Moscow games were irre- But it seems unlikely that in years to come anything will be Superior seen to have diminished the likely highlight of the Games. The first r the confrontation between the two most brilkant middle-distance runners in the history of sport.

That these athletes are British is almost incidental. At 23 Sebastian Coe is "thin but fun," to use his own words, and holds the world's 800 metres record at 1 min 42.4 secs. He was also the world mile recordholder until relieved of the title in Oslo by Steve Ovett on the

first day of this month.

At 24, Overt is taller and stronger and nobody's descrip-tion of fun. He ran his record male in 3:48.8, and in the same cott, the Games roll on, and the Osio stadium last Tuesday equalited Coe's world 1,500 from for the 800 metres is last Tuesday—also not at the November races at Ascot from 1:44.1 in Prague in 1978; Games—Coe will win both titles, next year, after 15 years.

will meet first in the 800 metres, and then in the 1,500 metres. The first round of the 800 metres is on Thursday, the second on Friday, the semifinals next Saturday, and the final the following day.

The first round of the 1,500m will be run on Wednesday, July 30, followed by the second round the next day and the final on August 1.

At present the inside view is that Coe will win the 800m gold, but that Ovett's superior strength will prevail at the longer distance.

Thomas Wessinghage of West Germany, who is not at the Games, favours Ovett for the 1,500m. He finished second to Ovett in Oslo last Tuesday, saying he had never seen anything like it. Ovett threw in his customary wave to the crowd, yards from the tape, and yet equalled Coe's world record. In the view of John Walker of

the 800m because phenomenal natural speed, the 1,500 metres, because he thinks Coe has the ability to run the distance in 3:28.0, a shade over four seconds, or approximately 30 yards, faster than he or his great rival have run it before. The clever money is keeping quiet, advancing no view, if for no other reason than that both

young men have timed years of preparation to the moment they appear in the Moscow finals; also that despite their world record heroics of the past two seasons, the true depth of their potential has not been revealed revealed.

Propaganda games and tarnished medal ware or no, there is nothing ambiguous about the way in which these

two young athletes stand ready for greatness. Racing deal

to end JAMES BUCHANAN, the whisky distillers, to withdraw sponsorship of two its

THE MAGNIFICENCE of Tom strange coincidences of the day was eventually to give him too par five ninth hole thus became was that all the first five commuch work to do.

par five ninth hole thus became much work to do.

par five ninth hole thus became much work to do. the 109th Open Championship at Muirfield an anti-climactic formality as undeniably the best golfer in the world strode, albeit rather slowly, to win by four strokes over Lee Trevino and by six over a third American, Ben Cranshaw.

salvaged something from the wreck of British hopes by tying for fourth place with the who by finishing once again in the top six extended his record to never having been outside the first half-dozen since his first Open at Troon in 1962. Watson, winning Britain's premier title for the third time -previously at Carnoustie in 1975 and Turnberry in 1977— had rounds of 68, 70, 64, and

271, three worse than his winning aggregate of 1977.

It was Crenshaw who got
Trevino had rounds of 68, 67. away to the best start from a 71, and 69 for a nine-under-par position six strokes behind the total of 275 to his partner leader. He got in a 15-foot Crenshaw's 70, 70, 68, and 69 putt on the first green for a for a seven-under-par total of

Mason and Nicklaus were three strokes further behind at the previous night, made to Watson's 10 under after five four under par. One of the another nervous start, which The 495 yds, relatively easy

THE BRITISH OPEN-by BEN WRIGHT

petitors had rounds of 69, two laus £9,250 each. Watson's snail-like partner, the slim Scot. Ken Brown, ensured that the last couple Carl Mason from Reading on the course took 41 hours

to get round, a shameful pace bу at which to play the game. Brown took 76 shots to finish extraordinary Jack Nicklaus, in a tie for sixth place, with three more Americans. Andy Bean, Hubert Green, and Craig a stroke. Stadler. The defending champion, Seve Ballesteros, finished a distant 19th. If Watson was to

frightened as he started the day with a four strokes cushion over Trevino and Brown, someone had to make an early move 69 for a 13-under-par total of to disturb his calm and elegant progress. It was Crenshaw who got

birdie, but poor Trevino, who had dropped strokes to par at

He went through the first under par. Watson won £25,000. green from deep rough to the Trevino £17,500, Crenshaw left of the fairway, chipped £13,500, and Mason and Nick-poorly to drop a stroke to par at the first, and then took three putts on the fourth green to drop another.

Watson made a brave par at the first from the left-hand rough, and thereafter made very few mistakes. He played only three holes poorly, the third, the tenth, and the 13th. at each of which he dropped

He went from rough to rough at the third, could not reach the green at the 475 yds tenth hole with two wooden club shots, and for once played an indifferent chip. was bunkered to the left of the short thirteenth, and missed from seven feet.

In the brisk and cold easterly breeze, the only mild flutter of excitement came about at the difficult 444 yds eighth hole, where Trevino made a birdie from 25 ft and Crenshaw from 20. At this stage Crenshaw had crept to within three strokes each of the last three holes of the leader at seven under par

utterly crucial, since both Trevino and Crenshaw could reach the green with an iron. Trevino did so with a glorious one-iron shot, 10 ft behind the hole, but Crenshaw came over the top of his three-iron shot and hit it to the left and short

of the green.

From here he could make no better than a par, since his ball was sitting up so well in the deep rough that he cut clean underneath it with his pitch and the ball warm should be the left the ball very short of the hole. Trevino likewise could not make his putt for an eagle three, and the one real moment of crisis for Watson had passed The quality of the winner's golf was quite superb, in that he missed few fairways, and when he did his iron play was

inspired. The first Sunday finish of the championship was in a sense decisive, in that total attendance figures were 133,670 against the 1979 total at Royal Lytham of 134,501 the all-time record.

glorious and his putting mostly

As usual, the British effort fell decisively short of adequacy, as one has come to expect since Tony Jacklin faded The 495 yds, relatively easy into comparative obscurity.

### FINANCIAL TIMES

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Monday July 21 1980

# Fragility in Zimbabwe

reconstruction process in Zimbabwe was going to be easy. The legacy of bitterness of the years of civil war was too deep. and the aspirations of the emancipated black population too high, for Mr. Robert Mugabe to be able to find any simple route to political stability and

economic prosperity.

Nevertheless the success, against all the odds, of the and Commonwealthsupervised cease-fire and election process did inspire an illogical faith that those problems could be resolved. But that faint hope appears increasingly

### Demonstration

escalating bickering between the supporters of Mr. Mugabe and Mr. Nkomo in Government, and the growing confusion between rhetoric and reality in relations between Zimbabwe and South Africa, were perhaps predictable. But the decision by Lieutenant-General Peter Walls to quit at of the country's joint military command is the most dramatic demonstration to date the intractability of the problems Mr. Mugabe is facing. The plan to integrate the armed forces of the three major the white-officered Rhodesian security forces, the semiregular Zipra guerrillas loyal to Mr. Nkomo, and the irregular. most numerous, Zanla Mr. been guerriilas supporting Mugabe—has always potentially explosive. General Walls' early retirement can only make it more difficult. His presents General Sir Erwin Bramall, the British Chief of General Staff, with a serious problem on the eve of his visit this week to review the progress of the Britishassisted integration.

There were two main purposes behind Mr. Mugabe's original controversial decision to appoint General Walls. One was to provide a supreme commander who was essentially neutral in the rivalry between the forces of Zanla and Zipra. and therefore to postpone the divisive decision on who should become the first black military commander. The second was to reassure the dejected White overwhelmingly the popular community of its safety. His choice, is the most desirable departure suggests the possibi- objective. That may well live of failure on both counts, require further British It is a sad illustration of the assistance.

have recovered from

As for his achievement as a neutral arbiter, progress on integration has been pitifully slow; one combined battalion was formed at the end of June and a second is undergoing train under British supervision outside Bulawayo. Under a six-week rotational training programme a new integrated battalion is theoretically to be formed every fortnight, but to judge by the progress to date. that aim seems excessively optimistic.

The major blame for the slow progress must be laid at the door of the political parties. Mr. Mugabe's failure to prevent his senior Ministers from attacking Mr. Nkomo, and the latter's obvious disaffection with the whole fragile alliance, have given their tribally-divided given guerrilla supporters no incentive to bury their own differ-

### Uncertainty

The longer the uncertainty continues, and more than 30,000 guerrillas languish in separate camps, the greater the danger of a return to bloodshed. Mr. Mugabe has a unenviable task seeking a successor to General Walls. He can pick his own controversial Zanla commander, Rex Nhongo, and alienate Zipra and the white community. He can pick a Zipra man, Dumiso Dabengwa (the head of security, who was the outstanding guerrilla commander during cease-fire process) and undermine his own position. Or he can look for another neutral figure like General Walls, possibly from outside the country - perhaps from Britain.

Whatever he decides Britain should be cautious in its approach to the whole business. Both for the future of southern Africa, and the protection of British interests and investment, a stable Government under the man shown to be

### NO ONE ever thought the depth of white bitterness that General Walls' appointment was widely regarded not as a gesture of conciliation, but as a sell-out by the former Rhodesian commander. He does not seem to

INTERNATIONAL COMPARISONS OF AVERAGE

U.S.

Japan

Germany

France

Canada

Total (OECD)

# Hopeful signs on Britain's inflation front

BY PETER RIDDELL, Economics Correspondent

matter of attitudes and expectations. Recently these showed that the proportion of people rating inflation as the country's most urgent problem had dropped since May from 41 to 27 per cent-in part because of a marked increase in concern about unemployment.

The evidence to explain this change of view can be seen all around. In one North London Street, for example, almost every shop front was last week offering special offers and price reductions. The only exceptions were banks, building societies and an undertaker.

Industry is having to limit its price increases. A recent Confederation of British Industry survey showed that fewer companies were planning to raise their prices during the coming four months than at any time for 7½ years The reports of price cuts or of very small price rises range from textiles and pylene—used to make plastics has fallen by 10 to 17 per cent in the past three months, while prices charged for a range of were on average lower in June than in February.

This slowdown is now beginthree months of this year, prices charged for manufactured pro-ducts increased by less than 3; per cent between March and Similarly, the Retail Prices Index has increased by just under 1 per cent in each of the last two months, much less than the average monthly rise of more than 12 per cent earlier this year. The current High Street price cutting has been reflected in a marginal fall in the price of durable household goods between May and June, and petrol prices have dropped since then. The overall slowdown would have been more marked but for a continuing sharp rise in prices charged by nationalised industries, such as\_gas and electricity.

8.1

3.7

17.0

8.7

per cent. The latest figures showed that deceleration has have changed dramatically. A begun with a 12-month rate of Gallup Poll last Thursday 21 per cent in mid-June. This should fall by at least a further 3 percentage points when the next index is announced. This is because the price rises caused by the increase in Value Added Tax last summer will drop out of the comparison. And the 12-month rate should be down to the forecast level of 16! per cent by the end of this year, and possibly even less if current price cutting

continues. Perhaps most significant of all are the signs of possible changes in the labour market. The annual rate of growth of average earnings has stopped accelerating and is now about 21 per cent after rising from less than 15 per cent over the last year. Admittedly this is so mainly the result of less overtime and more short-time working. But Sir Geoffrey Howe, the Chancellor of the Exchemicals to household goods. chequer, felt able to claim last For example, the price of pro- Tuesday that there was "increasing evidence of a new mood of realism on pay spreading through British industry."

The facts to date are far from metal manufacturing products conclusive. The CBI's Midlands region has reported that pay rises had recently averaged about 8 per cent. But this may ning to show through in the not be typical of the country as official statistics. After rising a whole. The Midlands includes a whole. The Midlands includes by nearly 6 per cent in the first a heavy concentration of small and medium-sized manufacturing companies which are particularly exposed to the special problems of the motor sector and to the sharp downturn in

### Exceptions were banks, building societies and an undertaker

engineering. There is less

evidence so far of a significant slowdown in pay rises in either the public sector or private sector services. Nevertheless the trend may be about to change. These factors have together

produced a marked change in attitudes since the spring The peak of the 12-month rate among politicians and of increase in retail prices—the economists. If there is not usual headline yardstick of exactly euphoria in Whitehall inflation—was slightly less than —as there hardly could be in been feared. The mid-May rate view of the unemployment outwas 21.9 per cent compared look—there is at least an air with earlier projections of a of optimism, notably among

11.3

3.6

4.1

14.8

9.I

7.7

Source: Organisation for Economic Co-operation and Development.

12 months to

May, 1980

14.4

8.2

6.0

13.7

21.9

9.4

NFLATION is largely a possible peak of more than 23 Treasury Ministers. There is a feeling, admittedly a controversial one, that at last the Government's beginning to achieve some success in the key policy area of cutting the inflation rate. This new mood was symbolised by the apparently rather upbeat presentation on the economy given to the Cabinet a fortnight ago by Professor Terry Burns, the Treasury's Chief Economic Adviser.

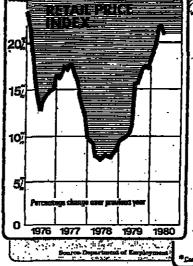
Expectations about the prospects after this year have also changed in the City. Analysts are now busily revising downtheir projections for wage increases in the coming round and for price rises in 1981, often by a couple of per-centage points. The general view of most stockbroking economists is now that average earnings will rise by between 13 and 15 per cent in the coming year and that the 12-month rate of retail price inflation will be down to between 10 and 13 per cenf by the end of 1981. These forcecasts are not infallible and they were generally too optimistic a year ago. But what matters is the current bullishness-the belief that inflationary psychology

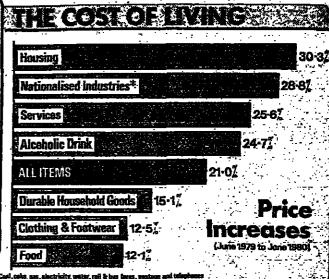
has changed.

The shift in inflationary expectations can be directly related to the dramatic start of the recession in April and May. Both domestic and foreign demand for a wide range of goods has fallen sharply. This has forced industry to limit price rises in order to remain competitive. Indeed there have been price cuts in cases where manufacturers and retailers have attempted to reduce excessive stocks of goods which are expensive to finance at current interest rates. This adjustment could last for about a year though in retailing the rundown could be shorter. Thus the next few months could be one of the best times ever to buy durable household goods and cars—while stocks last. When industry and retailing are going through a difficult period it is good news for the consumer.

The deepening recession has also been the main influence on the apparent change in the climate of wage bargaining. This can be described as "oldfashioned deflation." But whatever the label, there is little doubt from the comments of employers and shop-stewards alike that continuing large-scale redundancies and rising unemployment are having an impact on pay claims. This applies particularly in regions such as the Midlands which are used to In short, since some people relatively full employment. All this is some way from

the Government's aspirations in its first Budget in June, 1979. It was then hoped that a reliance on targets limiting the growth of the money supply would influence behaviour and reduce the underlying rate of infiation. In the event, the rate of growth of both wages and prices accelerated rather





(especially the rise in wages), should have helped to limit partly on the Government's price increases both directly by own mistakes (notably the increase in VAT), and partly on the external shock of the further rise in oil prices. Many nomists would argue that the Government wasted its first six months and "did not get its act together" until last November. Monetary policy was then at last tightened when Mini-

to 17 per cent, The acceleration in inflation over the last year does not mean that "monetarism" has necessarily failed. But it does suggest that the links between the announcement of monetary targets and inflation are more complicated and involve longer time lags than either the more naive supporters or the more vociferous critics of the Government's approach have

The Chancellot and other Ministers have frequently pointed out that the process of reducing inflation is bound to involve some transitional loss of output. The size and duration of these losses will depend on ow quickly behaviour, especially that of pay negotiations, djusts to the monetary guide-

The problem was summed up the Bank of England in its June quarterly bulletin. "Any restraint of wages in face of prices increase has clearly been less (in the UK) than in many that inflationary rigidities have got more deeply entrenched in this country than elsewhere, and that the policy required to break inflationary expectations have not adjusted their expectations and pay claims in line with monetary targets the medicine will have to be more severe as they price themselves out of their jobs.

The monetary squeeze may only have started to bite last winter but there is some puzzle about why the strong pound—a and the domestic recession are feature since 1977-78—did not have more impact last year on price rises. In addition, the than slackened. This outcome After all, the average value of rate of growth of good prices tan stackered. This outcome Arter an, the average value of race of growth of good prices squeeze can be blamed partly on an sterling against other currencies has been relatively modest—at reducing underestimation of the probrose by 9‡ per cent during 1979 just over 12 per cent annually— where it lems inherited from Labour alone. The theory is that this while there has been a marked 1978-79.

ported goods and indirectly by squeezing profit margins and limiting pay rises.

mum Lending Rate was raised

. But import prices rose by 20 per cent between the first quarters of 1979 and 1980 and only part of this increase can be explained by the rise in oil prices. The answer appears to be that overseas suppliers took advantage of the buoyant demand conditions in the UR and, where possible, increased their

> has contributed, for example, to some of the large profit increases recently reported by Japanese companies. The further rise in the pound this year and the recent fall in demand have, however, affected

own prices and profit margins;

### The rate of growth of food prices has been relatively modest

import prices in recent months. The average price of imported manufactured goods dropped by 31 per cent between the first and second quarters of this year. This in turn has been having an increasing effect on prices charged by domestic supoliers.

Even before the latest squeezethe threat from imports wasprobably the main reason why household goods and clothing and footwear have increased much more slowly than prices generally. Overall, the strength of the pound in the past two the 12-month inflation rate is about 3 to 5 percentage points inflation rate to single figures less than it would otherwise be, according to a rough-and-ready economists and politicians are estimate given to a Commons sceptical about whether a rate committee last week by Mr. of under 10 per cent will be Frank Cassell, a senior Treasury

and the domestic recession are and jobs. For all the current now clearly acting as a check confidence in Whitehall the

slowdown in the rate of increas reducing the sterling cost of im- Moreover, some of the price increases over the past year can be regarded as exception apart from the rise in VAT some, though not all, of the 28.8 per cent rise in nationalis industry prices in the past ve

the price restraint before the last election. Energy prices however, are still likely to rise. fairly fast over the next few

Senior Ministers and pundit are probably right to pi substantial fall in the inflatio rate during the next year or so, especially if the mortgage ran comes down next year. But there are still several major uncertainties. In the short term? market forces may curb the level of pay settlements in large parts of the private sector but the same will not be true in most of the public sector. There, the Government's desire to limit pay rises will be tested. In the longer term, the main

question is how far some of the pressures reducing the inflation; rate may be temporary and cyclical. This does not mean that the economy cannot: recover without pushing up the inflation rate; indeed, without a reduction in the rate of inflation a sustainable revival in output is unlikely. But it is possible that world commodity prices and sterling may not be 1981, while industrialists will be looking for every opportunity to boost their profit margins if demand expands.

Monetarists believe that as

long as the Government sticks ım-term strates should be possible to cut the and keep it there. Other achievable without a further economist major change in inflats eary.

The combination of a strong pyschology and without an unpound, the monetary squeeze acceptably large loss of output worry remains that the current squeeze may only succeed in reducing the inflation rate to where it was temporarily, in

# No verdict on comprehensives

education has been called a "vindication" of comprehendefinitely improve their career sive schools by several of their prospects. committed supporters, including Mr. Neil Kinnock, the Opposition Spokesman on education. The epithet, however. testifies more to the convictions of those who use it, than to their ability or willingness to view objectively the evidence on which the report was based. It is true that the bureau's research, as part of its longterm study of children born in a particular week of 1958, has refuted the common belief that the educational progress of pupils with unusually high academic ability. The bureau's tests showed that when aged 16, such children achieved simi-Jar standards of literacy and numeracy whether they had attended comprehensives, or the grammar schools which with the far less academic secondary modern schools constitute the sector of State

Disappointment This indication is nevertheless secondary-school pupils were in outweighed by two other find-comprehensives, and much has This indication is nevertheless ings. The tests failed to justify surely changed in the interval. to any marked extent the favour- Indeed, the most favourable able belief that the comprehen- finding — that the sive structure enhances the pro-gress of children with low well in comprehensives — was did similarly badly in both sectors, although those at comprehensives tended to be ahead the Inspectorate's later finding of those at secondary modern could no longer be safely conschools in mathematics. But the sidered valid today, when the second disappointment is the more significant. It is that in comprehensives has risen to children with a middling talent for scholarship—who constitute the majority—did less well in comprehensives than in grammar

The mixture of some favourable with a greater amount of adverse evidence, characterises attributes of the 6,000 16-yearthe selective sector as a whole truancy. beyond the compulsory school is viewed by the educational

THE REPORT by the National academic ability has not been Children's Bureau on secondary developed sufficiently to achieve examination results which would Moreover, when parents were

asked their opinions, only 70 per cent of those with children in comprehensive schools were satisfied, compared with 81 per cent of those with sons or daughters in the selective sector. And while the bureau suggests that comprehensives might do more than secondary moderns to encourage workingclass children to aim at a clerical career, the report also states that there was: "only limited evidence of increased class mobility and little sign of any higher aspirations engendered by theoretically less (socially) divisive comprehensive schooling." The report is therefore not

a vindication of anything. The

best term for it is probably "inconclusive" because the questions it answers are far outnumbered by those it begs. This is so particularly since the survey was made in 1974 when fewer than half of the country's academic ability. Such children directly contradicated by an inquiry made by the State Inspectorate in 1975. But even proportion of secondary pupils five-sixths.

### Discipline

On the evidence, it could equally be argued that whether secondary schooling is comprehensive or selective is less important to the child than the hureau's research into other factors which are not dependent on the structure of education. olds covered by the survey. For example, as well as dis-Those in comprehensive schools covering that mediocre scholars which had established effective did less well in comprehensives, sixth-forms showed more keen- the report found that these ness than their counterparts in schools had a higher rate of the selective sector as a whole truancy. Both could be to stay in full-time education attributed to a weakness of heyong the computer school attributed to a weakness of discipline, which is certainly age. Even though this tendency not necessarily a function of type of school. It is a function profession as an unqualified of the determination of teachers good, however, it is not beyond to ensure that a child does well, question. Staying on may not and of the support the teachers always be the best course are given by parents and by the for children whose middling values of society at large.

### **MEN AND MATTERS** Play it again "As with all projects here,"

sighs Treasury assistant secretary Andrew Edwards, "it all depends on the finance." In this instance, however, his concern is associated not with his daily round in European monetary affairs, but with a plan to stage a concert. Conductor and dogsbody to

the Treasury Singers since 1968, Edwards is currently fretting about the chances of mounting a Monteverdi extravaganza and specifically of unearthing in Whitehall or anywhere else the specialist musicians needed to give his venture the essential note of authenticity. "To sound really exciting we shall need sackbuts and cornetii. But there is hardly such a thing as an amateur sackbut player." he complains.

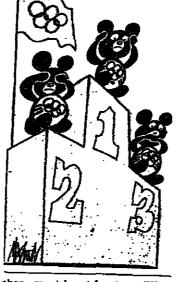
Still, he is well accustomed to getting the best out of scratch pro-am orchestras-the rehearse each piece only once with his Whitehall songstersas was evidenced at their latest performance: the Beethoven Mass in C. A stirring, if occasionally hicuppy affair, the concert was enlivened for me. I must admit, by the programme

"The word credo," writes Edwards, in terms apparently culled from one of his Treasury memos. "is repeated three times, more insistently each time, in a great crescendo of fervour and conviction. . . But the bit I cannot wait to hear again comes in the Agnus Dei, where, he says, "the chorus enters with a great cry of penitence."

### Easy as pie

Tran's trigger-happy law enforcement authorities, having cut a swath through that unbappy nation's ranks of drug traffickers, counter-revolutionaries, pimps and other malfeasants, have now directed their awesome powers on the

innocuous pastime of piccon fancier Apparently unaware that



there must be at least a million wild birds for every pet fantail or racer violating Iranian airspace, the joint staff of the armed forces has broadcast a warning on Tehran Radio of imminent punishment for people keeping and flying domestic pigeons. The "crime." the military says, lies in the threat from birds to aircraft. Told to "co-operate," but not told how, I suppose fanciers are expected to respond with offerings of pigeon pie to help ease the capital's chronic meat shortage.

### In the cards

How thoughtful, I thought, of Northwest Orient Airlines, to supply its passengers with a handy and entertaining phrasebook to help them on their way through their daily business in their Far Eastern destinations. This is the principle. Olympics It has printed decks of playing cards to wile away the governed Soviet attitudes to waiting with patience or, if travellers choose, in learning a little of the Japanese, Korean for Defence and Labour) move-

The queen will hail you a taxi.

demand you see the manager, of burling the hand grenade. The one that worries me, however, is the joker, which tells you how to ask the way gain a gold, while aspiring to the nearest police station. males must cover 40 metres Or maybe Northwest Orient are with the 700-gram model. trying to tell us something about police services in their neck of the woods.

### Do T day off

With a good half dozen Bills pushed through Parliament in With a their first year and many thousands of miles of travel logged between them, the Department of Trade's five ministers will today enjoy a cosy reunion.

So sprawling is the ministry and so diverse are the pre-occupations of Sally Oppenheim, Cecil Parkinson, Norman Tebbit and Reginald Eyre, that Trade Secretary John Nott felt it high time they sat down, together for once, away from the clamour of Whitehall, for a day of reflec-

tion and planning Should the ship of state run aground in their absence, however, they can be quickly summoned back from their summitry. The meeting will be held in the parlour of a former vicarage—home of Parkinson in Potters Bar.

### Bombing for gold

The ancients, who spent much time pondering such things, believed sport was the best way of keeping mind and body in harmony. Joe Stalin had a different view. To his mind the sole purpose of athletic endeavour was to ensure that new Soviet man could work harder and be a better soldier. This is the principle. Olympics fans please note, which has sport ever since. It led to the Golov k trudu i oborone (Ready and Chinese languages.

The ace, for example, tells Stalin standard for sporting one how to say "thank you."

while a quick shuffle and the GTO activities, which I have

appearance of the jack will before me, is the thrilling sport Young ladies must lob the said 500-grem bomb 25 metres to Further down the list of body-building exercises comes shooting a small-bore rifle with an option for the less-refined of popping off with "a heavy

> But the official GTO stamp of approval for your average running, jumping, bomb-chucking, bazooka blasting Soviet citizen remains tantalis running, ingly out of reach until he or she has withstood the ultimate test-wearing a gas mask for full hour without gasping for

### Banking error?

Perception, you will appreciate, is largely a function of perspective. So I suspect the chairman of Crocker National Corporation must have tied himself in knots to have gained his cock-eyed view of the attentions and intentions of the Midland, which plans to buy 57 per cent of his bank.

The arrangement. Thomas Wilcox told the Wall Street Journal, "isn't a takeover. The fact that they will have a majority of stock is almost an accident of accounting."

### Defensive stroke

" How curious," remarked the office manager to one of his more predictable absentees, "that your mother should fall ill every time there is an important match at Lords."

"It certainly is, sir," came the reply. "Do you think she's shamming?"

### Misfits

Graffito from Islington: "Two in one people are schizo-

Observer



Section 1

# FINANCIAL TIMES SURVEY

Monday July 21 1980

# THE ENERGY CHALLENGE

As one of the biggest consumers of imported energy among the world's leading industrial nations, Japan has been hit correspondingly hard by the second oil crisis. The country's success in coping with the first crisis is a hopeful sign, but its leaders are well aware that the task this time is even harder.

# Main obstacle to growth

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By Charles Smith ar East Editor

ENERGY SHORTAGES represent the most serious potential obstacle to Japan's hopes of maintaining rapid growth during the coming decade. Paradoxically, they could also provide the most powerful stimulus Japan has yet received to overtake the West in the derelopment of new technologies and to intervene directly in international affairs outside its own region of North-East Asia.

Whether the overall impact will be positive or negative remains to be seen, but it appears certain that Japan will be changed by the coming energy "squeeze" almost as much as it was changed by the experience of reconstruction after World War II.

The reason why Japan can yen). It was also obliged, for not escape being profoundly the first time since 1973, to affected by developments in the take a long, hard look at the world energy situation over the potential effect of oil and other next decade is that it is over-

whelmingly dependent on imported energy. Japan ranks second to the U.S. in the league table of oil-importing nations. But imported oil contributes far more to its total energy consumption than is the case with or any other major industrial country.

In 1978 no less than 90 per cent of Japan's primary energy supply was imported, with the

Japan's energy vulnerability led to something like panic when the first oil crisis struck in 1973. In the years that followed the economy made an unexpectedly strong recovery from the 1973 quadrupling of oil prices and, by 1978, few Japanese economists any longer believed that energy shortages represented the main potential constraint on GNP growth. This complacence, however, gave way to renewed concern in the spring of 1979 when the Iranian revolution, followed by produc-tion cutbacks in Saudi Arabia, set off another round of price increases and supply shortages.

Japan was eventually able to import its full oil requirements for 1979 but at a cost which was roughly three times that of the year before (in terms of energy shortages on its long economic growth pros-

ment of future prospects was the announcement (in the Government long-term economic development plan published in August, 1979) that Japan could expect to achieve economic growth of slightly more than 5.5 per cent in the first half of the 1980s, and 5.0 per cent in the bulk of the total consisting of latter half, if it increased its oil Middle East oil. The energy imports by 17 per cent up to dependence of Japan appears between 1979 and 1985 and greater still when one notes simultaneously made progress that 55 per cent of the total came from the Gulf area (including Saudi Arabia and Iran).

### Growth rate

conclusion sounded essuring enough given that Japan's growth rate during the six years since the 1973 oil crisis has seldom risen much above the 6 per cent level and sometimes well below 5 per cent. The only trouble is that few energy specialists, either inside or outside Japan, appear to believe that the premises on which the Government plan is based are reliable.

Japan's 1985 oil import target 6.3m barrels per day. although formally sanctioned at the Tokyo summit of advanced industrial nations (when all the participants set themselves oil import targets for the mid-80s) is now widely regarded as being over-optimistic. "Alternative estimates (for the end energy" estimates (for the end of the 1980s) also seem to of the 1980s) also seem to energies and the rate of earn by jacking up their permit it to intervene by force growth economy with a chronic which is only reflect a good deal of wishful domestic economic growth will prices to oil importers like or threat of force in oil payments problems and perhaps the problem.

by private forecasters. Finally, there are doubts about Japan's ability to get already doing out of a given quantity of energy, given-ironically—that it is already performing impressively in this respect. For the past few years the Japanese GNP has averaged 0.6 per cent increase in energy consumption for every 1 per cent growth in GNP. This is a better figure than has been achieved by any other major industrial nation.

The conclusion which emerges from these rather depressing facts would seem to be that Japan must either face a considerable cut in growth rates over the 1980s (perhaps to 4 per cent per year or less), or must take urgent action to improve its energy situation by developing alternative energies at a faster rate. In practice it may have to do both these things.

Japan's growth targets prob-ably will be scaled down, though at the cost of painful adjustments in various parts of the economy (including employment). At the same time much greater efforts will be required, and will probably be made, to convince the Japanese public that alternative energy sources such as coal and nuclear power are recessary and should be tolerated despite some obvious snags and disadventages.

Adjusting the balance between the supply of alternative

are also external challenges to be faced as a result of the energy crisis. These will inmore GNP growth than it is clude finding the means to pay already doing out of a given for costly oil imports (which will remain the main source of energy no matter how fast new sources of energy can be developed) and ensuring, or attempting to ensure, against political disruptions to the supply of oil.

Japan's oil bill in its 1980 fiscal year (ending March 31, 1981) is expected to amount to nearly \$60bn, or roughly half of its total imports. This will be covered by maximising exports of manufactured goads (to the developing world and to other developed countries) and by running a substantial deficit on the current account of the balance of payments which will in turn have to be offset by official and unofficial borrowing of various kinds. The current ac-1981 and 1982 if oil prices remain stable or rise only modestly But almost all Japanese analysts expect further steep price increases by the middle of the 1980s and a correspond-

### Cointon

The nation will seek to balance these by obtaining its OPEC share ρf recycled petrodollars (in other words dollars excess which oil-exporting countries

ing renewal of pressures on Japan's overseas payments.

thinking by government officials not be the only task confront- Japan). Recycling alone, how-and are being scaled drastically ing Japan in the 1980s. There ever will not be enough in the opinion of most Japanese observers. It will also be necessary exports expanding keep rapidly-and to ensure that the products exported are goods which earn a maximum amount of foreign currency with a minimum input of imported energy.

Japan's need to pay its way in a world of scarce and costly oil constitutes the main reason why the country will be placing more emphasis than ever during the next five to ten years on upgrading its industries and obtaining a global "technological supremacy" at least in some chosen areas. By producing goods which are not yet being manufactured in the (such as video tape recorders) the Japanese hope to avoid trade frictions with the U.S. and Europe and to become accepted as useful, instead of disruptive, members of the world trading community. What they do not seem to envisage is a world in which Japanese in dustry and technology would be only on a par with western levels, in the sense that it turned out more or less the same products with only minor differences of style or special-

Japan's other main preoccupation in the era of energy shortages will be to find ways of creating a political situation favourable to the smooth flow of energy supplies. Japan is nowhere near attaining the Great Power status which would

producing areas such as the Middle East. But it will try strength (ie, the ability to offer technology and industrial hard-ware) to make friends and influence people in the Arab world. It may also, increasingly. be inclined to try its hand at Middle Eastern diplomacy.

### Influence

Japan made a first tentative move towards adjusting its stance on the Palestine issue during the 1973 oil crisis and in so doing broke with the longestablished principle of automatically endorsing the American viewpoint on all major international issues. In future the Japanese may go beyond this and atempt to take a lead in framing Western policy to-wards the Middle East, possibly even seeking to influence the American position.

lt scarcely needs to stressed that Japan will be playing for high stakes, both economically and politically, as confronts the seemingly inevitable energy squeeze of the 1980s. If the gamble pays off and the crisis is surmounted the Japanese economy could look stronger at the end of the decade than it does today and Japan could have emerged as a much more self-confident and scarce and costly oil might, on the other hand, mean a low

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even some internal politica

instability.

Japan is too important in the world today for its allies and trading partners not to wish it success in its difficult task of adjustment. But those same friends and allies may have to active member of the inter-national community. Failure to that a Japan which has successadjust to the circumstances of fully surmounted the energy challenge will be a still more sericus which is only starting to tackle

### **Breakdown of Business Results** by Product Group (For fiscal year ending March 31, 1980)



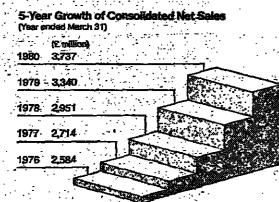
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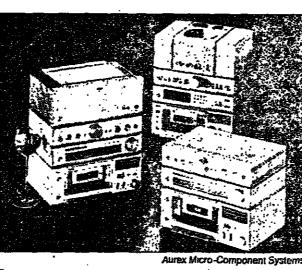
electrical and electronics fields is backed by more than 100 years of innovative firsts. Fiscal 1979 marked a year of many new developmental capabilities, and it's reflected in our record highs for consolidated net sales (£3.737 million) and consolidated net income (£89 million).

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(Sterling pound amounts are translated from yen, for convenience only, at the rate of ¥510**–**£1.}





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In addition, Toshiba's colour televisions with BLACKSTRIPE picture tubes are continually incorporating new TV innovations - Rank Toshiba Ltd. in Plymouth, England has been instrumental in the sets' production and distribution throughout Europe. To accent the enjoyment of TV viewing, Toshiba's Betaformat video tape recorder incorporates programming over a weekly cycle.

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Main Products

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Main Products

Nuclear Equipment: fast breeder reactor equipment, bolling water reactor, nuclear turbines and generators Transportation Equipment: electric/diesel locomotives, monorail cars, escalators and elevators Power Equipment: hydroelectric generating equipment, thermal-electric generating equipment, power transformers Industrial Equipment: induction motors, DC motors, electric equipment for metal, paper processing

Industrial Measuring Instruments: instruments & control systems, radiation monitors for atomic reactors, air pollution monitoring systems, X-ray or gamma-ray thickness gauges



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Main Products Communication Systems: broadcasting systems, telephone

systems, facsimile Information Systems: computers, word processors, data entry systems, computer peripherals & terminals Business Machines: copying machines, calculators Labour-Saving Equipment: mail processing machines.

banknote processing machines Medical Equipment: computerized tomography scanner, diagnostic X-ray equipment, ultrasonic diagnostic equipment Electronic Components: integrated circuits and LSIs, colour cathode ray tubes, magnetron tubes

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# Management skills will be put to even greater test

The most spectacular savings have been made by some of the

largest users. Steel, cement,

aluminum and other big users

have cut back successfully mostly through "positive"

investment in new, more energy

The net result is that Japan

went from requiring a 1.34 per

cent increase in oil supplies for

every 1 per cent of real GNP

per 1 per cent GNP growth from 1975-1977. The U.S.

same years going from a ratio of 1.18 to 1.23. West Germany

reduced its ratio to 0.86 from

If Japan is to continue ex-

porting successfully it will have to shift its industrial structure

even further away from pro-

amounts of energy to produce

(just as the economy had to

when wages began to rise). This

will mean an increased empha-

sis on new industries, sophisti-

cated machinery, and even

greater efficiency in the old

believe that further savings by

industry will not translate auto-

matically into even better oil

energy "elasticity" ratios. For the 1980s the oil consumption

that require large

most economists

1.27 before the oil crisis.

ducts

However,

came less efficient during the

efficient, plant and equipment.

### THE ECONOMY

RICHARD HANSON

THE JAPANESE economy deserves the "best effort" award 197 for achieving comparatively high rates of growth with a 197 niggardly increase in oil consumption since the 1973 oil crisis. Unfortunately, it appears unlikely that even highly efficient industrial Japan can improve much more on the amount of real economic growth squeezes out of the volume of energy it consumes. There is also a serious doubt as to how much energy will, in fact, be available by the end of this to support further

growth.

These are the new economic facts of life Japan faces in the 1980s. In essence they mean that despite Herculean efforts to restructure and fine-tune the economy after the first oil crisis, the task of making it "energy crisis proof" is still decades from completion. This poses the immediate, and crucial, question of just how much growth the country can afford

the answer depends on whether or a pessimist. Roughly, the two those who have a definite inwell with the economy (the words, was over-heated and government, primarily) and needed to be slowed down.

The classic deflationary tools out what is going wrong (the The optimists say that a healthy

able to afford over 4 per cent. rates say that anything less could lead to serious social problowering of the sights say this keep to a minimum inflationary strains on world oil supplies. They also argue that supply constraints will automatically

JAPAN'S BALANCE OF PAYMENTS

(	Şm,	)
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	Exports	Imports	Trade halance	Services	Transfers	Current account	Long-term capital	Basic balance
75	56,004	50.161	5,843	(5,364)	(345)	134	(260)	(126)
76	69.394	58,246	11,148	(6,096)	(370)	4,682	(1,606)	3,076
77	83,363	63,028	20,335	(5,922)	(417)	13,996	(2,441)	11,555
78	96,978	76,447	20,531	(7,772)	(907)	11,852	(16,229)	(4,447)
79	105,083	107,539	(2,456)	(10,205)	(1,270)	(13,931)	(8,188)	(22,119)
atae:	1 Minne Ge	nuros aro in	naconthes	os ? The	rears are Ja	nanese fisca	al vears ru	nning from

April 1 to March 31 e.g. 1979 = April 1, 1979, to March 31, 1980.

### Committed In what now seems like the

distant past (i.e., before people worried about oil), Japan was committed to flat-out growth to standards of the industrial West. The most important problem faced by Japanese economic managers in the 1960s in achieving double figure growth rates was how to do it despite the severe constraints presented by At is the case with all questions posed by the energy crises, tional payment's balance. Oil was cheap and readily available. you are talking to an optimist If the current account fell into or a pessimist. Roughly, the two deficit it meant that Japan was groups break down between consuming more than it could afford to buy from the outside terest in seeing to it that all is world; the economy, in other

were then applied; these conprivate sector, although not all sisted of raising interest rates private forecasts are negative). and directly limiting the amount of funds banks could lend. From rate of growth is possible (5-6 the mid-1960s onwards this per cent) over the next 10 years, formula worked almost too well, while the lower estimates are creating a robust economy that that Japan will be lucky to be tended to be chronically in surplus. By 1970 the surpluses Those who support the higher began to annoy Japan's trading partners, forcing Japan to start liberalising its rigid laws on lems, such as unemployment. On capital flows and to accept a the other hand, advocates of a sharp revaluation of the yen. lowering of the sights say this When the 1973 oil crisis struck. will help achieve stability and the authorities applied the same old brakes and for good measure clamped exchange controls back on the ecenomy.

hold the economy back — so accused of over-reacting initially cut into profit and make manutat, in the end, there may not be much choice.

accused of over-reacting initially cut into profit and make manutation to the 1973 quadrupling of factured products much less prices (the discount rate went competitive. up a full two points to 9 per cent in one step in December, 1973) and causing a recession deeper and longer than it need

> GNP growth plunged from 10 per cent in the 1973 calendar year to minus 0.5 per cent the following, and the economy took two full years to recover its vigour. Inflation went from 16 cent before the oil crisis (fuelled by a rash of speculative growth from 1970 to 1973 to an land and commodity price in "elasticity" ratio of only 0.55 land and commodity price increases) to a peak of 22 per cent in 1974 before cooling gradually with the recession.

The authorities have since then become much more adept at handling the shock of an oil crisis, as verified by the reactions so far to the second crisis which was sparked late in 1978 by revolution in Iran. The practical lesson learned from the 1973 shock was not to panic. The Government would not like to see a repeat of the fear which spread to consumers and businessmen in 1974. The years between the first and second crises have also been well utilised by Japanese industo become more energy

Industry in Japan consumes the lion's share of energy (unlike the U.S. where private consumption, for cars in particuar, uses up large amounts of oil), and it does not need very much encouragement to become increase rate per 1 per cent of more efficient in using it. High real GNP growth is expected rates of energy usage simply to hover at 0.6-0.7, which indi-

cent today.

### Crucially

The rate of economic growth that Japan can "afford" therefore depends crucially on how much oil and other forms of energy will be available over the next decade, here Japan's tar-get figures and "realistic" esti-mates begin to show wide gaps.

Economic Planning Agency (EPA) a year ago set as long-range growth targets of 5.7 per cent per annum for the first five years and 5 per cent for the latter half of the 1980s. This assumed the following major factors: 1. That Japan will become about 15 per cent more efficient in conserving energy by 1990? 2. That oil imports will rise 17 per cent from last year's 5.4m B/D to 6.3m B/D; and 3. That progress will be made on bringing alternative energy sources like nuclear power, steam coal and LNG into substantially greater use.

from the peak. This is in part traceable to

the trend for inefficient private consumption to eat up greater amounts of energy (more cars, heaters, air conditioners, refridgerators, etc.). The nonindustry sector eventually could account for about half of energy demand compared with 40 per

The latter two factors have become extremely problematical, particularly expectations on nuclear power. Some hold that it will be difficult for Japan even to maintain its present level of oil imports, but a more reasonable view is that it will be only able to increase imports by about 10 per cent (rather than the targeted 17 per cent). The private Institute of Energy Economics sees the country falling 12-13 per cent below the 1990 energy supply target, and predicts that growth rates closer to 4 per cent are all that can be expected in the GNP.

What can be said about the Japanese economy from now on with some certainty is that it is finally completing the transition to low growth from the high-growth '60s. The successful recovery from the first oil crisis is still being reflected in the present buoyancy of



March) topped the 6 per cent has agreed to suffer what will level in real terms, and is not surely be a real decline in expected to slow until later this income in 1980. More importyear. The Government estimates antly, there is a growing probsomething less than 5 per cent for the full fiscal year, on the that growth has slowed and the basis of strong exports and spending by corporations for rapid rate. new plant and equipment.

recovery, however national government's finances crisis occurred when it did. are in the red, and new taxes Otherwise, Japan might not be needed before fiscal stability can be restored. In the interest of keeping down in-Growth last fiscal year (to competitive), Japanese labour

lem of income distribution now population is ageing at a very

One widely held view among A price has had to be paid Japan's business elite is that it The was a good thing the 1973 oil have had sufficient time to prepare for what clearly are the long-term realities of the manent energy crisis of

BASIC STATISTICS 377,535 sq km Population GNP (1979) Y221.723bn ¥1.913m Per capita

TRADE (1979) \$99.2bn Imports \$101.2bn Exports Imports from UK £606m £1,490m Exports to UK ¥518.5=£ Currency: Yen

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# Currency drawn willy-nilly into greater world role

### THE YEN

RICHARD HANSON

ONE OF the "spin-offs" of the Japanese currency has been accumulating in the hands of foreigners at a faster pace over the past few months than at any time in the past. This de facto internationalisation of the yen is the result of measures the Government took to defend Japan's exchange rate from further deterioration in the wake of huge oil-induced international payments deficits. The first oil crisis had led to the abrupt shelving of plans to allow greater international use of the yen. These plans were the brainchild of a small group of Finance Ministry "liberals" some of whom are are no doubt drawing an ironic satisfaction from the fact that their ideas are at long last being put into practice. "Orthodox" thinking in the

Finance Ministry and the Bank of Japan has until now tended to stress the dangers rather than the advantages of too great in international use of the yen. Japan began its postwar economic recovery with a tightly regulated financial system featuring, among other things, officially regulated interest rates. The free flow of funds in and out of the country would have made it hard to sustain such a system and Japan accordingly adopted a foreign exchange control law modelled closely on that of the

### Prohibited

The law was based on the principle that all foreign exchange transactions were prohibited unless specifically authorised by the Finance Ministry and the Bank of Japan. In practice this meant that the scope for non-residents to acquire yen assets, or to borrow yen, was almost nonexistent from the early 1950s until near the end of the 1960s A parallel consequence of the system was that Japan's external trade was conducted, and financed, in foreign currencies with the bulk of shortterm import finance being arranged through the New York head offices of major American

exchange control system first took hold, and when U.S. in-

began to spring leaks in the terest rates at last passed their last few years of the decade of peak. investors demanded—and had to be given—increasing freedom to acquire yen securities.

From 1970 until the onset of the first oil crisis in 1973 Japan's rapidly strengthening foreign exchange prompted further with the system. International organisations and foreign governments were

granted permission to issue yen-dominated bonds in the Tokyo capital market from 1970 onwards (the so-called samural bonds). At the same time there were discussions on instituting a "yen shift" which would have involved transimport financing from dollars to yen. (This experiment was abandoned largely because the interest rate gap between Japan and the U.S. would have made the transfer prohibitively

expensive.)
The 1973 oil crisis, with its overnight effect on Japan's international payments posi-tion, derailed these plans in a hurry. Yen lending to foreigners was halted abruptly (although foreigners continued to be encouraged to buy Japanese stocks as a means of "defending" the yen). The samurai bond market remained in limbo until its cautious In 1976 and 1977, when Japan

and before long an embarrassing external payments surplus there was a progressive loosening of government controls on forms of yen lending (both samurai bonds and syndicated loans). The amount of "Euroyen" or external yen in circulation outside Japan accordingly rose from an estimated \$2.7bn (equivalent) at the end of 1977 to \$6.2bn a year later. The advance of the yen as an international currency coincided with the rapid strengthening of the yen-dollar exchange rate. This hit a peak in October 1978 when the yen briefly touched the level of 175 to the dollar.

By the end of 1979, however, soaring oil prices had once again shifted the current account from record surplus into record deficit. The yen fell sharply between the spring of 1979 and early 1980, finally bottoming out in April this year when the rate stood at more than Y260 to the dollar. From then on things began to look up as a yen defence package an-nounced early in March by the

The March 1980 defence pack-

age took a completely different approach to managing foreign exchange problems from the strategy adopted after the 1973 oil/yen crisis. Rather than gthening attempting to stop the outflow position of capital, the authorities entinkering couraged an inflow. The steps included freeing interest rates that banks can pay on "free yen " deposits governments and central banks: allowing Japanese banks to make medium-term "impact loans to Japanese companies, and also to transfer (under a quota) Euroyen from their overseas branches. Officials announced they were also prepared to activate swap lines with the New York Federal. Reserve, and that West Germany and Switzerland would back up the Bank of Japan.

### Impressive

The result has been impressive. The Ministry of Finance estimates that free yen (which simply means yen that can be freely moved in and out of Japan) deposits by central banks increased at a rate of over \$1bn between April and June. "Impact" loans to Japanese corporate borrowers hit \$600m in May. In the space of two months from the form of two months from the start of April the yen appreciated nearly 20 per cent to the Y215. Y200 range which MoF feels began to acquire, first an ample,

is an appropriate level.
Senior officials at MoF were particularly anxious to attract an inflow of funds from the Middle East oil producers, and missions were despatched to offer national bonds and encourage other investment. The authorities were a bit red-faced about the fact that they bad turned down an offer from Saudi Arabia just last year to roll over a \$1bn deposit made five years ago to help banks through an international credit crunch. The Finance Ministry and, however, manage to get an ence in investing in Japan than agreement to place a fairly the U.S. or UK, will be rather large sum of national bonds cautions anyway with the Saudis.

large sum of national bonds with the Saudis.

The recent inflow of foreign funds into Japan, especially from the oil producers, was large enough to raise current estimates of offshore yen to the equivalent of more than \$15bn (or more than twice the figure of 18 months ago). The Mor is paying very close attention to this development, and is in to this development, and is in fact planning to make its first disclosure ever of estimates of ead offices of major American as a yen detence package an nounced early in March by the non-resident yen holdings,
The "watertight" foreign Ministry of Finance belatedly similar to estimates made by
took hold, and when U.S. in- West Germany. This will

holdings of yen bonds; and equities, etc.

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Piere

At the root of all these shifts, nollar surplus (to which Japan will contribute around \$57bn this year as the price for imported oil). The sudden spurt of yen into international hands is the direct result of Japan's need to finance the oil-created deficit "below" the bottom line of the balance of payments. Japan is also playing a signifi-cant role in the overall re-cycling of petrodollars.

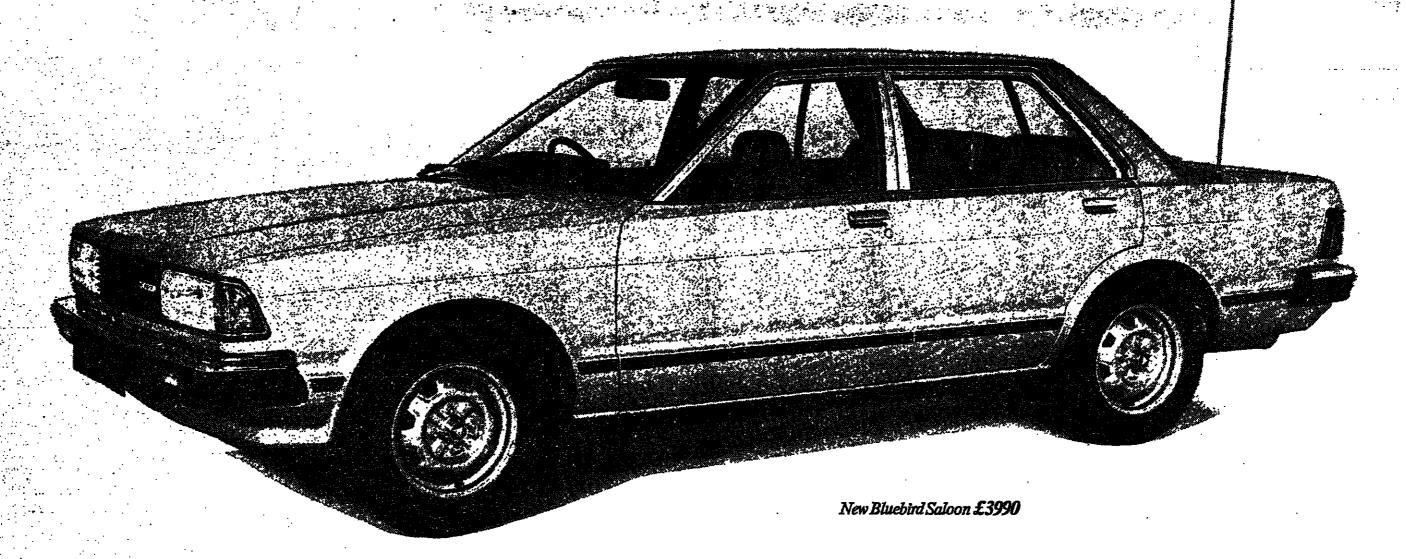
Estimates of petrodollar flows are basically guesswork. Government and private estimates, however, indicate that Japan is now recycling about 10 per cent of OPEC's wealth, after a late start. This is in line with Japan's share of the world GNP. One Japanese bank guesses that the Japanese share breaks down roughly (as of April) as follows: Euroyen deposits in Japanese banks overseas: \$3-4bn (out of total OPEC Eurocurrency deposits of \$12-15bn); free yen deposits: \$3-fbn; other foreign currency deposits in Japan: \$5-6bn; and anywhere from \$7.5 to \$16bn in Japanese stock and bond

### Takeovers

Japan has not been as success ful at getting the Arzos to invest in Japanese stocks as it might like. This is partly because there are few Japanese advising the Arabs on where to Stock buying has received a lot of attention since it was disclosed that the Arabs were buying shares in some of Japan's better known' com-panies. The Government says. however, that in no case is the percentage of sheres now held more than 1.5-2 per cent. Nobody in Japan is expecting Arab

The yen's position as a world currency is still minor when compared with that of the dollar. There are estimated to be over \$60bn in Eurodollars in the market. There is also no reason to think that Saudi Arabia or other oil producets are soon going to begin accepting payment for oil in yen. But as long as Japan's economy con-tinues on a sound course, and the yen maintains its purchas ing power, the process of inter-nationalisation appears unlikely

هكذامن الأحل



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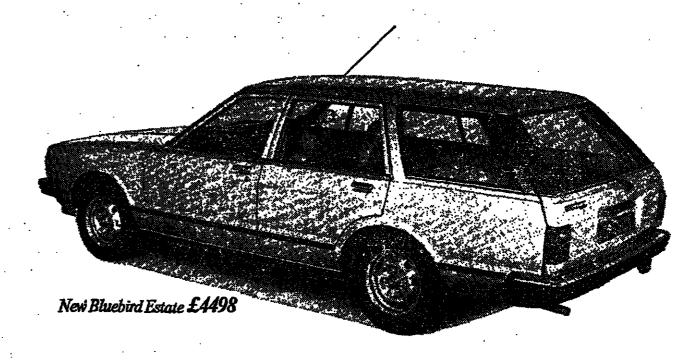
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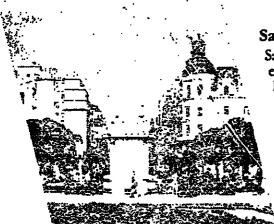
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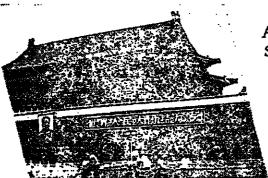
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Sanwa continues to expand its international activities

Sanwa's international activities are worldwide in scope. A good example of this fact is the bank's recent \$35 million syndicated loan to Argentina's Obras Sanitarias de la Nacion, a company which holds almost 90% of Argentina's water supply and sewage disposal market. Sanwa managed this medium-term loan, with two major European banks, and also managed a separate ¥3.4 billion loan. With ongoing accomplishments such as this, Sanwa continues to push forward its network expansion goals. The bank plans to upgrade its Panama office to full branch status, and to open representative offices in Madrid and Buenos



A joint venture with China's capital city

Sanwa Bank has had a long and friendly relationship with China. a relationship that has borne fruit with many Sanwa "firsts" vis-a-vis commercial activities with that country. In May this year Sanwa marked another first when it announced the establishment of a joint venture with the city of Beijing. The primary object of this joint venture, which will be physically located in Japan, will be to promote the flow of business information between Japan and Beijing, so that economic relationships can be strengthened and encouraged.



Sanwa marks two steps forward in electronic banking

Sanwa Bank recently played a leading role in developing a computer-linked automatic cash dispenser network among seven of the largest commercial banks in Japan. This new tie-up will greatly aid depositors by enabling them to withdraw their funds from any of the 4,500 cash dispensers of the participating banks. Sanwa also recently inaugurated a futuristic computer access system which permits busy clients to check their account balances and receive notices of incoming funds by simply picking up a pushbutton telephone. Responses are given in an electronic voice. This is the bank's first step in the direction of 2 broad spectrum of telephone-based electronic banking services.

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OVERSEAS NETWORK: Conton, Darwildon, Frankricht, Brolleck, and 24 other orbes worldwid

# Spectacular plunge into deficit

### **BALANCE OF PAYMENTS**

CHARLES SMITH

JAPAN'S BALANCE of payments has been dramatically affected by the second world oil crisis. In fiscal year 1977 (ending March 31, 1978) Japan registered the largest current account surplus in its historymassive and embarrassing \$13.9bn. A year later the current account was in the black by \$11.8bn despite efforts to reduce the surplus by artificially boosting imports. But by the spring of 1980 the situation had been spectacularly reversed. The current account for the

12 months ending last March was in deficit by \$13.9bn, representing a net deterioration of \$24bn in Japan's external payments situation in a single year. The change was the result largely of the doubling of crude oil prices, although the delayed effect of efficial import-boosting grammes also helped to increase the deficit.

### Discussion

The sudden appearance of what is far and away the largest overseas payments gap in Japan's history has prompted two types of discussion inside Japan. The first revolves around the short-term problem of now to finance the deficits of 1980 and 1981 (when the current account should still be in the red, if not so heavily as this year). The second is concerned with the medium-term outlook.

Until a year or two ago it was widely assumed that Japan had reached a stage in its economic development when it could expect to be in semi-permanent surplus with the rest of the world (because of the competitive strength of the main Japanese export industries). What is now being asked is whether Japan has arrived at a situation of permanent or

Views about the short-term

account gap of up to \$20bn. accumulated through last year's investment destination," says Factors involved in the short- increase in oil prices.

of oil — which is vital since not be enough, however, to turn every additional \$1 per barrel the long-term capital balance adds \$1.7bn to the cost of Japan's imports — and the yen exchange rate. This also matters a good deal, because a dearer yen means higher dollar prices and therefore larger dollar revenues from Japan's exports.

Two questions about which

there appears to be relatively there appears to be relatively little disagreement are now fast Japan's exports will grow in volume during the year, and to what extent the volume of imports will stagnate or diminish. Export volume growth of between 5 and 10 per lent is generally assumed as likely (although the volume of world trade during 1980 may not grow trade during 1980 may not grow by more than 2 per cent) while imports will almost certainly stay at low levels. Despite these two factors Japan will probably end 1980 (fiscal) with a sub-stantial visible trade deficit. imports, which are

expected to account for nearly per cent of a total import bill of around \$120bn will bear the main blame for this, although the actual quantity of oil imported during the year seems unlikely to exceed that of 1979. Imports of manufactured goods, particularly of con-sumer manufactures from other industrial countries, will pobably diminish in volume if

The combination of a fair-sized trade deficit in 1980 with Japan's normal invisibles deficit of \$11bn or so produces the prospect of current account deficit of at least \$13bn—in other words of a payments gap as large or larger than that of 1979. An important difference between this year and last, how-ever, is likely to be that the deficit on long-term capital transactions will be substantially reduced. This will be the result of a number of factors almost all stemming from deliberate official action.

Overseas yen lending Japanese banks and foreign borrowing from the Tokyo capital market (through the medium of the so-called samurai loans) will be less than in 1979, payments outlook for Japan although these two activities will range from the relative opti- still represent a drain on the mism of those who believe that long-term capital account. On

These two positive factors will the long-term capital balance current account by cutting its from red to black, still less to counteract the deficit on current account and produce an overall balance in the basic balance of payments. A deficit on the bottom' line will have to be covered inby the "below-the-line" financing including overseas borrow-ing by Japanese banks. Japanese commercial banks are already heavily indebted on their short-term oversea transactions. The short-term over-seas deficit position of the city-banks stood at \$24bn in net terms at the end of March.

### Uncomfortable

The short- to medium-term outlook for Japan's payment situation can be described as uncomfortable but by no means unmanageable. The longer term outlook remains rather vague but at least a number of general points can be made about it.
One is that, as a major industrial country with a roughly 10 per cent share of the world's GNP, Japan can expect to continue getting its share of petrodollars—always it does nothing to providing deter OPEC investors. A second point is that a too strenuous effort to restore a current balance by promoting Japanese exports might land the Japanese in trouble with their trading partners in the West-who would be at the receiving end

of such exports.
With these basic principles in mind Japan will probably strive for a very gradual rectification of the payments imbalance over the next few years while placing heavy stress on more general economic objectives such as controlling inflation and maintaining a stable yen exchange rate. If Japan's economic performance shows up well against that of Western countries on an overable to keep on attracting OPEC funds even if the balance of payments stays in deficit, it is argued at the Bank of Japan

(BOJ).
On the other hand officials

fiscal 1979 to the relative pessi- as part of the recycling pro- if only to convince OPEC that mists who forecast a current cess of the OPEC surplus Japan is a safe and worthwhile

The BOJ does not believe that Japan can achieve a balance oninvisibles deficit, or at least no primarily by this means. monthly invisibles deficit some \$700m to \$800m assumed to be a structural feature of Japan's payments, position, in part because of the heavy outflow expenditure on tourism and travel (which could be corrected only by sub sidies to Japan's tourist industry which would arouse critica

The deficit on financial services could be reduced by build ing up Tokyo as an international financial centre on the model of this are believed to be under study at the Ministry of earnings of Tokyo, however would probably not be enough to offset Japan's spending on banking and insurance services elsewhere in the world, so that this would be a palliative rather than a cure for the invisibles deficit. Income from Janan overseas loans and investments future and eventually become an important source of invisibles income, but this will take time.

With invisibles acting as continuing drain and with the obligation to maintain an ever-seas aid programme. Japan will feel itself obliged to aim for a surplus on visible trade infuture. The surplus will probably never again rise to the 1978 when Japan earned \$30bn a year from its overseas trade despite being the nation most critically dependent on imported oil. It will, however, almost certainly become large, enough to cause intermitent frictions with other major. trading countries including the U.S. and Western Europe.
The Japanese will try to

all basis the nation should be, resolve these frictions by supplying products to the West which do not compete directly with tape recorders) and by inviting their friends in the West to focus on broader issues rather baulk at the suggestion that than bilateral trade relation-Japan should happily accept the ships. They do not delude-prospect of being permanently themselves, however, that Japan in the red on current account. can pay its way in the world the deficit for fiscal 1980 (endthe plus side there should be, "We should be able to hold out without stirring up some resenting March next year) will be and to some extent already has some hope of eventually ments among other trading
about the same size as that for been an inflow of petrodollars recovering a balanced position nations.

# Greater world involvement

### **FOREIGN POLICY**

CHARLES SMITH

SETS of events are forcing Japan to adopt a more active role in world affairs following a long period of diplomatic inactivity. The declining margin of American military superiority over the Soviet Union in the Western Pacific has meant that Japan can no longer take its security for granted. Simultaneously Japan has been obliged by worries about the world oil situation to start paying close attention to its relations with resourceproducing countries.

Both developments have produced an impact on what remains Japao's most important external relationship—its political, military and economic alliance with the U.S. But for the time being it is the energy crisis, rather than the more gradual change in the military balance, that seems to be provoiding the largest number of foreign policy adjustments.

### Simple notion

Until the onset of the first oil crisis in 1973 Japanese foreign policy was based on the simple and satisfactory notion that nothing could go seriously wrong so long as the American "special relationship" remained in good condition. The Japan of the early 1970s was already the world's largest importer of oil and other important materials such as iron ore and coking coal. But little thought was given to the development of a policy stance towards the countries producing these vital resources.

Japan relied on the American and European oil "majors" for more than 80 per cent of its crude oil imports at the time of the 1973 crisis and on the U.S. State Department for guidance on its Middle Eastern diplomacy. Relations with Western Europe were cordial, as belitted the ties between two major American allies but singularly lacking in content. The panic about Japan's oil supplies which resulted from the 1973 oil crisis led to the first important departure from this system. In November 1973, in

the face of strong opposition

Japan announced a significant shift in its position on the Palestine question which for the first time placed it closer to the Arabs than the Israelis. The change involved placing a pro-Arab interpretation on UN resolution 242 instead of the even-handed" interpretation which the Japanese Foreign Ministry previously.

### Two directions

After its first decisive break with the U.S. over the Middle East, Japanese policy towards the region evolved in two direc-tions. Official attitudes towards Palestine Liberation Organisation (PLO) became progressively more favourable, culminating in what the Japanese Foreign Ministry claims to have been the most "advanced" Western position towards the PLO until the EEC redefined its Palestine policy at its recent Venice summit. Simultaneously Japan embarked on an all-out effort to develop a two-way economic relationship with the Arab world (instead of simply buying Arab oil through the majors).

This effort took the form of offering to assist Arab countries with the supply of heavy industrial plant and of buying oil direct (either on a direct deal or government-to-govern-ment basis).

The policy got off to a highly publicised start when no fewer than three Japanese Ministerial missions toured the Middle East (including non-oil producing Arab countries) in the winter of 1973-74. It received a label— 'Resource Diplomacy"—a year or so later and a few months after that Japan was starting to face criticism from Europe for selfishly diverting its aid to wealthy Arab governments in order to secure oil supplies.

Seven years after the first abrupt changes in Japan Middle East policy a number of the have painful lessons seem to have been learned. One is that a fruitful bilateral economic relationship with the region may take time to build up, and may, have to be based on something more than the supply of a few massive industrial complexes. A second lesson concerns the need for a multilateral response to the oil crisis.

Japan's "go-it-alone" policies vis-a-vis the Middle East have been supplemented in the past year or two by a much greater disposition to consult with other importing countries, including n. In November 1973, in those in Europe, on how to deal for the extension of a major ace of strong opposition with energy problems. What export import bank loan to Dr. Henry Kissinger, has not changed since 1973 is finance the steel pipe exports.

the Japanese perception that leaving everything to the U.S. is no longer a viable method of handling issues which could threaten Japan's fundamental economic or political interests. A classic instance of Japan's

more flexible and independent approach to a tricky diplomatic issue was provided by the crisis that erupted in November 1979 when Iranian students seized the American Embassy in Tehran and the U.S. responded with a call for economic sanctions against Iran by its Vestern allies.

Japan was in no position to the American call outright, given the importance of its ties with Washington. But the prospect of having 13 percent of its oil imports cut off in retaliation for stopping amounts to Iran was not creatly exports to Iran was not exactly inviting. Nor was Japan prepared to sacrifice its interest in the \$3.3bn Bandar Khomeini petrochemical project in southern Iran in which the Mitsui group of companies is desply involved.

Japan confronted the dilemma drawing a distinction between sanctions in general and the Bandar Khomeini project is particular (where Mitsui continues to be involved with what appears to be American acquiescence). It then hitched itself to the European bandwagon by announcing that it would follow closely decisions made by the EEC Council of Minister with according to Iranjan Ministers with regard to Iranian sanctions. Iran's exports of oil to Japan were suspended in April, but over a price dispute (involving Japan's refusal to pay \$35 per barrel for its imports) not as a result of sanc-

Japan's strategy in

Iranian affair appears to have been duplicated in the case of policy towards the Soviet Union following the invasion of Afghanistan. In the first weeks after the Soviet action a virtual halt was called in economic relations with Moscow; for example, a visit to Tokyo by a senior Soviet trade official who was to have discussed credit for a major steel pipe contract was postponed. Within a few months, however, a gradual resumption of contact took place following similar moves in Europe. In late June, after closely observing similar moves West Germany, Japan granted an entry visa to a Soviet Vice Minister of Trade who duly signed an agreement for the extension of a major

Relations with third countries such as Iran and the Soviet Union, are not the only area where Japanese foreign policy has shown signs of diverging from U.S. policy in recent years. The two countries have also disagreed and continue to disagree in their attitudes towards lite development of peaceful nuclear energy and on nuclear

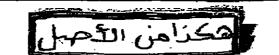
non-proliferation. Former Premier Takeo Fukuda took a firm stand on this question during a 1977 visit to Washington when President Carter attempted to freeze Japanese moves to reprocess spent nuclear fuel from its American light-water reactors on the grounds that this would run counter to a domestic elec-tion pledge to prevent production of plutonium. Three years later the issue of whether and how Japan can reprocess its remains partially unresolved, but Japan's position on the matter has been made clear to the U.S.—and torns out to have a good deal in common with the EEC position.

The fact that Japan now frequently finds itself disagreeing with the U.S. and agreeing with: Europe on tricky international issues does not mean that it is on the point of exchanging a special relationship with the U.S. for a special relationship with Europe. What it does appear to mean is that Japan-U.S. relations are becoming somewhat more like U.S. Europe relations, with a degree of give and take on both sides.

### Central

Japanese foreign planners are acutely aware of the need for their country to make a bigger "positive input." into the American alliance by for example, increasing Japans responsibility for its own defence and perhaps even for regional security. They are inno doubt, however, that he Tokyo-Washington exis remains central to Japanese foreign policy just as the American relationship is crucial to Western Europe.

Future Japanese Foreign
Ministers will probably try y
build on progress made during
the past 18 months in improving personal contacts with Western leaders, and in easing ing that the Japanese view k heard clearly at major international gatherings. Japan does not feel that it is quite as free to speak its mind today as the leaders of countries such as France and West Germ appear to be, but the in that direction.



# Long-term strategy aims at energy balance

### ENERGY CONSUMPTION

MARK MEREDITH

IT- SEEMS fashionable to perspire slightly in the offices of the Energy Conservation Centre in Tokyo. The Vice-President has removed three of the seven sets of strip lighting in his office and the visitor is asked if he would like to remove his jacket as the air-conditioning operates at an exemplarily low

Japan's awareness of the energy crisis, of the need to reduce oil consumption, to reduce energy waste, cut back on the use of electricity and to press on with finding alternative. ources of power is more obvious than in other Western in-dustrialised countries.

This sensitivity is largely due to Japan's vulnerability to possible energy shortages. About 89 per cent of the fuel needed to power this industrial giant is imported and there is precious little in the way of home-produced fuel to fall back on if these imports were to be threatened. Nor are there viendly allies close at hand with more plentiful stocks or re-seurces to help Japan through

The Japanese have worked out a medium to long-range energy strategy which works like this. From 1985 onwards the Government wants to keep the level of imported oil constant at about 369m kilolitres (6.3m barrels a day) and to raise the contributions from other energy sources such as nuclear and coalfired power as well as alternative energy to meet the continued increase in demand.

Demand meanwhile will be restrained through an active con-

servation policy. For example, in 1985 overall demand is likely to equal 662m kiloletres a year (114m barrels a day) of oil but conservation should be able to reduce this to 502m (8.65m b/d).

In terms of imports only France approaches Japan in terms of dependency on foreign supplies, bringing in 78 per cent of its energy requirement or year. The U.S. imports only 19 per cent.

For Japan, with the highest growth rate in the Western incut back on ei pergy has presented major problems. The Government's plans are to gear together reduced consumption and the development of alternative energy sources the maintain a high rate of mountain. a high rate of grownih—5 or 6

To some critics this plan ill-suits Japan's real requirements. Should Japan drive inkelf head-long into an interprational economic slowdown, picoducing exports for an interprational market which is conditacting through recession and with a through recession and with a growing sensitivity to heavy imports?

Mr. Takeo Tomitate, director of the Research Division of the Institute for Energy Economics, feels the high growth right in the fact of the energy crisis is wrong. He likens it to order: an obese middle-aged ma p to eat a great deal after excelssive

jogging.
"The trouble is that a preoccupation with an illusion of
rapid growth, which is unfit for actual physical strength, has ned Japan to map out unrealis in targets for development of alternative energy sources with out any specific measures for their attainment," he wrote in a recent assessment Real growth targets in the face of

mounting oil bills should be more appropriately set at 3 to 4 per cent, he believes. The Institute for Energy Economics sets much lower estimates for consumption over the next 10 years in line with lower growth rates, forecasting a potential supply of 584m kilolitres of oil equivalent in 1990 compared with the official forecast of 700m.

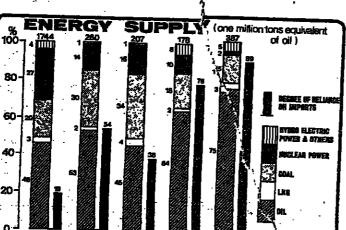
confronts the Japanese at a time when they are developing a real feel for prosperity. Booming consumer and leisure industries make it hard to think of rationing.

### Lightly

Yet in conforming to the Government's ambitious energy conservation programme, the individual energy consumer in Japan comes off fairly lightly. He loosens his tie at work, uses his air-conditioning less in summer and drives less. Much of Japan has a moderate winter compared with Western Europe and heating bills are not as and heating bills are not as heavy. According to the Parisbased International Energy Agency, Japan has the lowest per capital energy consumption the residential and commercial sector.

But the savings in industry are the ones that count. More than all the other leading inindustry uses a larger share of total energy consumption—it works out at nearly 60 per cent of overal domestic usage. Here he application of conservation as been impressive and at imes ingenious.

this meeting, the Internationtal Energy Agency prescribed a five per cent cut in oil communition for its members.



Nevertheless the Government considers its growth targets of 5 to 6 per cent as vital to maintain employment and profitable levels of production. Reduced growth, not to mention reduced consumption, confronts the Japanese at a promote energy saving.

Financial subsidies and tax benefits were made available for energy-saving equipment and to encourage a frugal approach to power consumption.

Meanwhile the Sunshine Project, created in 1974 after the first energy crisis, promoted new alternative energy technology including solar, geothermal, coal gasification and other methods of power generation. The Moonlight project at the same time avalance was tion. The mountight project at the same time explored new conservation technology. In industry, where the big bills are paid, came the great-

est achievements.

The steel industry increasingly adopted the continuous casting system of producing crude steel. The system uses two-thirds less energy than traditional methods of ingotmaking which require reheating. The industry also recycle the gas pressure for the blast furnaces to generate electricity and recovered gas for the steel-making furnaces for re-use in reheating processes. The result was a 9 per cent saving in energy between 1973 and 1978.

In the motor industry im-proved control in steel forging, Just over a year ago the indistrialised nations met in and improved insulation prodependence on oil. Following

proved control in steel forging, waste heat recovery in painting and improved insulation produced a 21 per cent reduction in electricity and fuel bills over the same period. Japanese cars meanwhile showed an 11.2 per

meanwhile showed an 11.2 per cent improvement in mileage between 1973 and 1977.

In the cement industry the installation of suspension heaters for the limestern and reduced increased efficiency and reduced energy consumption by 16 per cent. Conservation in the chemi-cal industries produced a 17.2 per cent reduction in fuel costs between 1973 and 1979, according to the Conservation Centre. In the aluminium industry reduction of the amount of heavy oil used in pre-heating together with other rationalisation measures brought about a 6 per cent energy reduction.

Power stations meanwhile increased their thermal efficiency making more of the oil or coal they burn. Energy consumption in the transportation sector has been lower in proportion to that of the U.S., Britain, West Germany and France.

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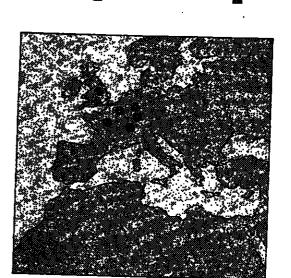
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# Inescapable dependence

OIL

RICHARD HANSON

IN THE days when it was cheap, oil helped Japan perform economic miracles which astounded the West. It has become, however the acknow-ledged "Achilles heel" of the economy and may retain that position for at least the rest of this century.

First, Japan can do very little to reduce its dependence on imported oil, supplies of which are becoming harder to secure. and more expensive, because it energy it consumes was a has virtually none of its own serious mistake. It would have secondly, its efforts to cut back been difficult, however, to have the amount of oil used in done otherwise and still achieve the economy will probably fall the high economic growth it when of the taxage that Company and the first Government itself. short of the targets that Government planners are aiming at the driving force behind the Phis is mostly because other switch from coal to oil for energy sources will be slow power generation in the late coming on stream even up to 1950s and 1960s, the converging of this converging of this converging of this converging to the converging of this converging to the converging of this converging to the con the end of this century. It is also doubtful whether Japan will be able to use the oil it buys any more efficiently than it already does to maintain real economic growth at a desirable

### Combination

Japan absorbs nearly 9 per icent of world oil output, roughly. the share that its economy the share that its economy accounts for in the world GNP. Last year 76 per cent of those imports came from the Middle East. More than a quarter of the 5Am barrels a day Japan buys on average comes from the southern continues and Arabia. one country alone, Saudi Arabia, a place few Japanese know very well. At present the combinaion of a pricing dispute and U.S.-inspired sanctions has stopped shipments from Iran completely, a country which ist year provided 13 per cent Japan's off

It is very easy indeed to paint algloomy picture of Japan's externe vulnerability in terms of oil. The fact is, however, that dispite some near-misses and a good deal of stumbling over the fact oil. ven years since the first oil risis, Japan so far has not suffered too greatly from its dedendence on oil. This is mainly decause it has been able to afford the cost of dearer oil imorts (although not without infurring a huge current account deficit). At the same time Japan has yet to face a serious disruption of its supply lines. Japanese officials can be fairly

worldwide. The volume of Japanese oil consumption has remained static for about the past five year. Some experts are predicting that use could actually fall this year by about 200,000 barrels a day below last year's 5.4m barrel average. Prices for many petroleum products have already shown signs of drop-ping. If further disruptions in supply do occur, Japan now has more than 100 days' consumption in private and official stock piles, an amount which is actually putting a strain on storage facilities.

Japan admits that to have allowed itself to become dependent on oil for nearly three quarters of all forms of did. The Government itself was power generation in the late 1950s and 1960s, the conversion ironically, was just about completed in time for the completed in time for the December 1973 quadrupling of OPEC oil prices. (Japanese planners can take some comfort, however, from the fact that burning oil did help reduce air pollution, a factor which is making reconversion back to coal difficult).

The Government now realises all too well the dangers of heavy dependence on oil. It has set a target of reducing oil to 50 per cent of total energy consumption by 1990. This assumes, however and very optimistically—that nuclear power can reach 53m kW (compared with 15m kW this year) and that coal imports will jump to 53.5m tonnes a year (from 2m tonnes in 1979). The prestigious Institute of Energy Economics, a private group, forecasts that nuclear power generation will more likely reach only 30-35m kW and that them coal imports will rise to steam coal imports will rise to

Leaving aside the question of overall demand for oil, Japan has also learned the dangers of depending too heavily on any one source of supply. Top priority has thus been placed on diversification. The importance of supply supply the supply supp ance of finding more oil supply sources came clearly into focus last year when Japan found itself progressively deprived of supplies from the oil majors as a result of a "third party" dispute between Iran and the

28-33m tonnes.

The majors provided Japan mand and healthy supplies when the Iranian crisis dis share of Japan's oil imports for this fate a bit more calmly.

rupted world supplies. During 75 per cent of the total five 1979, however, the majors, with years ago to about 45 per cent few exceptions, stopped supplying oil to non-affiliated companies in Japan.

system of quotas on oil imports which had kept the majors at arm's length throughout the 50s. Arm's length, of course, still meant that all of Japan's oil was bought through the

### SOURCES OF OIL IMPORTS

(1979---per cent) Saudi Arabia ..... Indonesia ..... Malaysia/Brunei ..... \*\*\*\*\*\*\*\*

The fear was, however, that the big international companies would use this new freedom to take complete control of Japan's domestic oil refining and dis-tribution industry. The Government therefore devised a petroleum law (1962) which gave it the power to regulate the construction of refineries and to influence pricing. More impor-tant, the Government set about creating a domestic oil industry to compete with the foreigners and their affiliates.

The intention was to keep a 50-50 balance between the foreign and the domestic por-tions of the oil industry, and foreigners were only allowed to take 50 per cent shares in affiliates (except those already established). The concept has not worked very well. Domestic refiners generally have fared worse than the more numerous foreigners — in some cases because their plants came on stream just as the first oil crisis hit.

the industry has become even must expect to suffer over the more urgent since the majors next few years will end stopped supplying the non-benignly. This was certainly the affiliates. Some Japanese companies are having trouble acquiring adequate supplies. OPEC countries rose to fill the depantese officials can be fairly the majors provided dapan acquiring adequate supplies. Of a countries rose to all the certain that this year at least with most of its oil from the and are seeking to co-operate gap. Perhaps the greatest need as a result of reduced decreased in 1950 until last year. The majors have reduced their the first oil crisis is to accept

years ago to about 45 per cent now. To replace these very large amounts the big Japanese ompanies in Japan. trading companies (and some A little history is useful in of the oil companies themunderstanding the complex organisation of the oil industry in Japan. In 1960, to satisfy OECD rules on free trade, Japan rejuctantly ended a system of sustees are illustrated as a system of sustees are in the size of the oil, companies themospherically doubled in one year the amount of oil they one oil, companies themospherically doubled in one year the amount of oil they one oil, companies themospherically doubled in one year the amount of oil they of the oil, companies themospherically doubled in one year the amount of oil they be nearly doubled in one year the amount of oil they be nearly doubled in one year the amount of oil they be nearly doubled in one year the amount of oil they be nearly doubled in one year the amount of oil they be nearly doubled in one year the amount of oil they be nearly doubled in one year the amount of oil they be nearly doubled in one year the amount of oil they be nearly doubled in one year the amount of oil they be nearly doubled in one year the amount of oil they be nearly doubled in one year the amount of oil they are not one year the amount of oil they are not one year the amount of oil they are not one year the amount of oil they are not one year the amount of oil they are not one year the amount of oil they are not one year the amount of oil they are not one year the oil they are not one year the oil they are not one year the oil they are not one year the

notorious Japanese scramble for spot oil late in 1979 to make up for the loss of crude from the majors was one result of this shift.

To a lesser extent Japan has been able to diversify sources through government-to-government (GG) agreements. There are four such agreements at the moment—with Iraq, Indonesia, China and Mexico. "GG" oil accounts, in theory, for 7-8 per cent of total imports. But the agreements by no means assure supplies. supplies.

### Assured -

China, for example, has indicated it will not be able to indicated it will not be able to fulfil promises to increase shipments over the next two years. Mexico has quietly assured Japan that it will let shipments rise to 300,000 b/d by 1982 from the level of 100,000 b/d expected to be received to be received. expected to be reached at the end of this year. But Mexico will not become a really major supplier of oil to Japan for at least another decade. And it expects, meanwhile, that Japan will be very generous with aid to several of its key develop-

ment projects.

The other logical method of securing oil supplies—by participating in exploration and production from the start—has been seriously neglected by the Japanese. There is only one Japanese company producing oil overseas in any quantity the overseas in any quantity, the Arabian Oil Company, in a con-cession in neutral waters between Saudi Arabia and Kuwait.

Altogether, oil from Japanese-related developments amounted to about 8.5 per cent of supplies last year. This could increase if offshore explorations in Soviet Siberia, between South Korea and Japan, and in Japan's own continental shelf prove successful. Expectations, however, are pitched low.

Japan has no alternative but

A further re-organisation of to hope that the oil crisis it case after the Iranian crisis. when production from other

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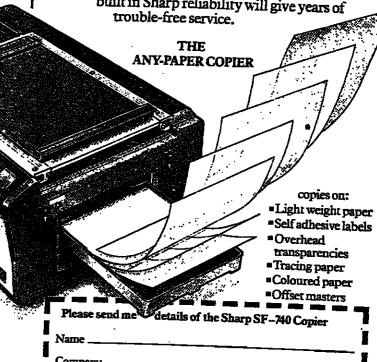
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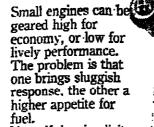
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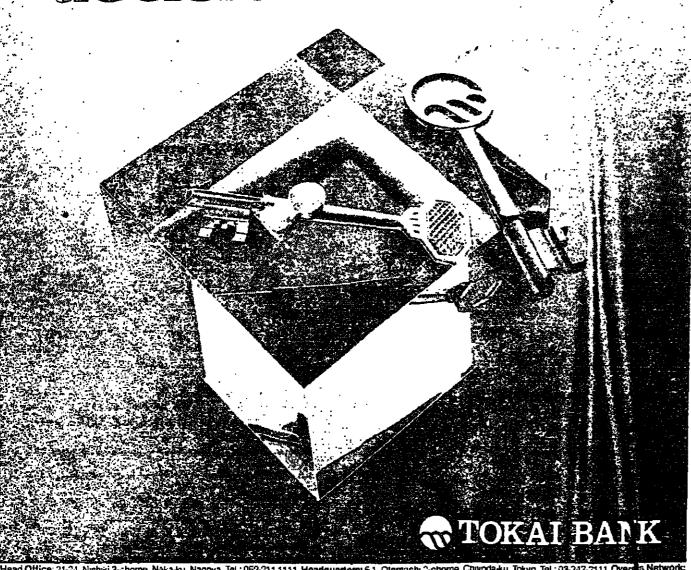
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# Comeback depelads on cost and availability fof supplies

### COAL

MARK MEREDITH

HORDES OF joggers emerge each workday noon to run around the moat of Emperor's palace in Tokyo. Some of them, pausing out of breath at a stoplight, doubtless reflect with relief that the fitness fad had not caught on 15 years ago. For in 1965, in the area of Tokyo Bay, seven coalfired power stations belched smoke and fumes into the air, helping to establish the Japanese capital as one of the most polluted cities of the

In those days the straight-forward solution was to move into cheap and easy-to-handle oil. Today the smog has improved considerably

By the time of the two oil price shocks of the '70s, Japan had virtually climinated coalfired power and largely replaced it with oil. Oil now fuels half the 245 power stations in Japan compared with 20 per cent of oil thermal power in Europe and the U.S.

In the search for a way out of oil following the price rises, coal presented a clear option. In its long-range plans, the Government-backed Electric Power (EPDC) calculated that demand by 1990 would nearly double to about 840bn kWh.

Nuclear power and liquid natural gas would fuel about 30 and 25 per cent respectively of power output. Oil would still be needed to run about 25 per cent of requirements—or less if

Coal under the plan, would make a comeback from its present 4 per cent of electrical output to fuel between 9 and 11

or the conversion of oil-fired to coal: the development of supporting infrastructure for coal, including transport and stockpiling centres; the development of secure and reliable trade links for the import of steaming coal for the power stations because Japan's own coal production was costly and limited. It also meant depending on a manageable price for coal imports.

Sixteen of the 245 power stations in Japan run by-the nine private power companies are still fired by coal. Most of them are small stations in remote areas with a relatively low output. The EPDC, which follows through Government energy policies and operates the national grid system, has begun work on five new stations and another five are planned. Many are on the coast, with facilities to off-load ships and stockpile

**Efficiency** 

The Ministry for International Trade and Industry, which oversees the energy programme, also plans to convert 10 per cent of the oil-fired stations to coal. Experiments are also being made to combine coal with

At the same time the thermal been improved so that most ar heat does not go up tiat of nney. Japan ranks aboac-ne chimney. even with France and the UKon ut this respect But the prospect of a retwil

to smog has brought considered are able opposition from an envimentally aware Japanese pufation The EPDC says its piwiblic stations have met the validations environmental standards by rious developmentec It the depollution systems to rio of the hazards of dust, sulphar emove nitric fumes seems soulcar and off. Tests on the "tofele way gas treatment system" is tal flue companies including the Tokyo Electric Power Companies.

Electric Power Compar be compared lete until

of the projections for coal-fired power were based on ht existed before the · coal.

Japan imported only lm tonnes steaming coal-the ne for power stations-Imports are due to tnearly 22m tonnes in t: 80.5m in 1995.

newer companies needed coal and in n. secure imports of policy as d hoped that through a e of investments in mining coe vi investments in mining coe al supply infrastructure wilnal-producing countries, as by ould be able to import coal se reasonable rates over

het the power companies t expect was the sudden efid for steaming coal from sement industry in Japan. an wanted about 7m tonnes Lion of its kilns from oil to This demand helped heip up the price of steaming value from Australia, for valuemple, from just over \$20 a furnine to about \$35 fob. Australia,

nn Foreign coal prices generally Sutose about 70 per cent in the bulast year, causing some painful pere-examination of the eventual cost of coal-fired power.

Imports of steaming coal were tiny beside the long-term con-tracts for coking coal to supply Japan's steel industry. required over 50m tonnes of coking coal last year and its requirements were expected to rise with signs of a return of steel demand and the use of more coke to replace oil in blast

Australia is by far Japan's iggest source of coal-Australian mines supplied over 40 per cent of imports in 1978, with the U.S. and Canada supplying about 20 per cent

The extensive programme of investment in Australian mines was paying off in secure sources of supply but not in price.

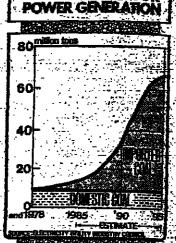
Another reverse came with an Australian decision to reject minut to fuel between 9 and 11
per cent.

Moving back—part of the way
—into coal meant the construcinto coal-fired power stations

September this years.

More fundament tal problems the Blair Athol Coal Company with the development of coal of Queensland. After examining the amount of foreign capital going into the mine, the

COAL DEMAND FOR POWER GENERATION



Japanese proposals went at per cent Australian ownership ing coal was reviving fast. In the view of economists at the Institute for Energy Econor the gap betwen high grade coa and low grade oil was starting to narrow.

heartened by the growing prospects for coal liquefaction. Rival Japanese projects ware under way in Australia. The overall effect on prices did not please Japan's electricity power

### Clash

A disappointed Mr. Saturu Murai, Director of Fuel for the EPDC, told the Japan-Australia coal conference in Canberra earlier this year current situation has reached the point where our different positions (suppliers and users) can cause a fundamental clash views about pricing uniter the kind of long-term contract which guarantees long-bern demand and facilitates planned production. If we are going to be affected by spot prices every we cannot establish a relationship with one

Australian coal producers did not filed convincing the talk of diversifying to the U.S. Canada. outh Africa not to mention

At home the Japanese responded by starting negotiations between coal users in the steel. cement and power tradition on orderly market pur chases to obtain the best supply conditions.

Development Company is for the creation of coal centres in the north and south of Japan each with a capacity of 10m tognes of coal a year to allow for stockniling against price flightations and supply interruptions.
The consumers could take

Japan's own coal mines. The few remaining mines produce about 20m tonnes a year but costs are high and attempts by nines to increase price have only driven users to hole to imports. The industry now relies extensively on subsidies and capacity is not expected to expand over the next 10 years

# Programme faces special problems

### NUCLEAR . POWER

CHARLES SMITH

Japan's aftempt to reduce its dependence on oil to 50 per cent of total energy requirements by 1990 depends, most critically, on what happens to its nuclear power programme. Nuclear power has received the heaviest emphasis in the Government's energy development strategy to date (at least in terms of budgetary spending) because it is cheap compared to either oil or liquid natural gas and clean tat least in a conventional sense) compared to coal.

Nuclear power in Japan, however, as in other countries, has encountered some very special problems of its own. These can he classified under two broad headings of "public accept-(meaning the extreme difficulty of getting the general public to agree to the siting of new power stations because of fears about safety) and "international political (meaning the complex series of issues standing in the way of the development of a nuclear fuel evele and the introduction of new and more economical types of reactors). As a result of the two sets of problems Japan's targets for the development of nuclear generating capacity have been repeatedly scaled down—and may yet have to be cut back further.

### Intancy

At the time of the first oil crisis (1973) when actual nuclear power generation was in its infancy it was hoped that on its intancy it was noped that 60m kW of electricity could be produced from nuclear reactors by the mid-1980s. The situation today is that 21 reactors are in operation with a total generating capacity of 15th kW equal to about 11 per cent of Japan's overall power generating capacity). A further seven reactors are under construction with a combined capacity of 5.8m kW and public acceptance problems have been resolved in the case of seven more (combined capacity 7m kW). This means that Japan nas "in the bag" a total of around 28m kW of generating capacity.
Allowing for the

required to complete construction it is expected that roughly 25m kW of this total will come on stream by 1986, a year after the deadline set in the latest "modified" Government target

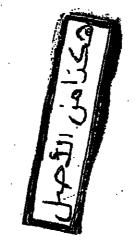
The same power station building pro-"modified" target calls for jects was set back seriously generating capacity to bit 51m after the Three Mile Island generating capacity to bit 51m to 53m kW by 1990 but officials accident in the U.S. in the at the Ministry of International spring of 1979 but has recently Trade and Industry responsible begun to move ahead again for co-ordinating the nuclear though with the addition of new power station building proand more time-consuming programme admit that this will be cedures. Apart from the time difficult to achieve. It would required to go through legally required procedures, the seleccall for the approval over the next five years or so of between tion of sites for a Japanese 4m and 5m kW of generating nuclear power station is usually capacity per year, a much higher figure than has been preceded by a prolonged and time-consuming bargaining ses-

achieved to date. The approval of new nuclear utility that will operate the

CONTINUED ON NEXT PAGE

# TRUST AMONG NATIONS

sion between the electric



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60-

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# Three main areas of research

### **NEW ENERGY** SOURCES

MARK MEREDITH

NEXT TO the U.S. Japan is the world's most energy-hungry nation. It accounts for 10 per cent of the energy consumed by the world; it needs to import 89 per cent of its fuel, and 75 per cent of its energy requirements

are from oil.

Paced with rising oil prices
and increasingly uncertain or unstable petroleum supplies, the need for alternative source of energy are as obvious as they are imperative. After some expermentation and a long look lect in the U.S.

There is one big advantage in the search for alternative power to three laterast solar power conversion between from Japan's solcanic trata.

iccording to the Institute of Energy Economics, could be (45,4000bn (\$207bn) if Y1,680bn is to be spent over tapan keeps to its oil import the next ten years. opproved at the Tokyo Energy

ummit of last year. The contributions of the three per cent contribution to total energy requirements by 1990. Yet this bite represents the equivalent of 33.3m kilolitres of all a year: 21.4m from converted

fired or liquid natural gas, other plants are being built as thernal power and, to a smaller pilot projects.

degree, hydro-electric power. The islands of Japan are

Ministry for International Trade to satisfy four times the present and Industry. The project takes energy demand.

its three energy candidates their experimental tap this energy and finding the power has been through solar and Industry. The project takes its three energy candidates through their experimental paces and then attracts private funds to nudge viable systems gradually into commercial

Japan has been slow off the nark in the field of coal liquefaction. This may be due to a lack of overall policy on its development. Several Japanese firms are in-

volved in liquefaction projects ahroad, which may have restrained plans to push ahead domestically in the field, Rival Japanese companies are devel-oping oil from brown coal in Australia, and Japan along West Germany and the U.S. is withstudying liquefaction development in the SRC-II pro-

The cost is horrendous—

12,400bn budgeted between lew and 1990. But then the project launched its "accelerated oil ball alone in 1990. the same time put maximum two ways of coal liquefacation:

### Centred

Economists in Japan reckon paint ventures into alternate that liquified coal will become being will only make about a 5 economical when oil prices have economical when oil prices have risen to about \$50 a barrel. Research has also shown that turning coal into oil as opposed to gas has the best future. Development is now centred on cpal, 5.4m from geothermal two ways of coal liquifaction:
power and 6.5m from solar direct and by solvent extraction.
Each systems will accompany. Mile holding oil imports coal with heavy oil in a reactor

steady from 1985 onwards, the under high temperature and main burden of oil replacement high hydrogen pressure to high hydrogen pressure to through the 1990s will fall on extract oil. A test plant in Nagathe conventional systems: saki can produce oil from one nuclear power, a revival of coal-

Supervising the research and volcanic and beneath the surpment of new energy is face are thought to be sufficient lector. sunshine Project of the reserves of geothermal energy The individual mirrors pivot

power a generator.

involves high pressures, high temperatures, corrosive chemi-

cals and noxious gases. That said, there are many beneficial spin-offs once this power is har-

nessed. Hot geothermal water,

for example, can be used to heat greenhouses, swimming pools and apartment blocks.

as though it may become as suc-

cessful as the current fast food craze which is sweeping Japan. Solar panels for water heating

are selling as fast as they are

made. One company, Chofu Selsaku Sho, turns out 26,000

panels a month and sales

The Sunshine Project wants

to build the integrated solar

house, where the sun not only

beats the water but also heats

the house and runs the cooling system. The sun would also

warm up high-efficiency storage

heaters to give out heat on

Generating electricity from the sun works two ways; first by

concentrating the sun's rays to

heat water, turning it to steam

to turn a power generator, and secondly, sunshine can be con-

verted directly into electrical

In a solar thermal station of

the first type a field of mirrors

surrounds a tower and the sun's rays are bounced back to the

top of the tower to a heat col-

rainy days.

current.

Sun power for the home looks

The other way to capture sun power has been through solar cells—photovoltaic generation.
Sunlight strikes two types of right system has proved diffi-cult. Six geothermal power stations are presently in operation semi-conductors in a cell to crewith output of about 200 MW. at electricity. The cells are Development is concentrated expensive and the brunt of research is surrently simed. search is currently aimed at eventual mass production of cheap solar cells. A new way has been developed of forming a silicone ribbon for the cells which reduces a production of the cells. on using the reservoirs of hot water and tapping the thermal energy of volcanoes and hot dry rocks. One project would pump water down through hot rocks, using the returning steam to

to a fraction. Other technological break-throughs should bring this form Making use of the volcanic strength beneath Japan is not only difficult—It is dangerous. It of power generation on stream well before solar thermal power but neither system is likely to contribute much before the 1990s.

which reduces production costs

### Itching

Other off-beat energy sources are, in general, confined to laboratories. There are doubtless scientists itching to proceed with the production of oceanic thermal energy.

One day this would launch a

giant needle-shaped platform into the sea to float vertically. Power would be generated through the difference in temperature between the water revenue rose from Y700m in coming into the deep end of 1978 to an estimated Y15bn last the needle and the warmer water near the top.

One day too hydrogen may be developed as a source of Japan's energy. Hydrogen is efficient and clean but requires energy to produce it in the first place. Behind all the search for alternative energy and the hopes to reduce the dependence on oil is Japan's greatest power base-its technical capacity and adaptability. Within the sprawling electronics industries and the large users of energy within industry are both the know-how and the facilities to react to mounting energy costs and the

The move towards alternative energy is slow getting off the mark and modest in outlook in Japan. The continuing rise in imported conventional fuels is likely to quicken the tempo and

markets in new sources of

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# Emphasis CONTINUED FROM PREVIOUS PAGE

rower have proposed a sweeten stations. ing of the pill for local resistations would be given a discount on the normal electricity This idea borrowed iron France, has some serious snas, however, so far as Japan

One problem is that existing legislation requires that electricity tariffs should be uniform throughout Japan, A second is that many nuclear power stations are located outside the funchise area of the utility companies which operate them. Takyo Electric Power Company, for example, has located its niclear power stations mainly

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you expand.

facing the Japanese Government in the nuclear field. A second challenge is to guarantee the industry's long-term viability by developing new types of reactors and filling gaps in the nuclear fluel cycle. · All but one of Japan's 21

reactors are at present the American light-water type whose uranium consumption is spent fuel. Japan recognises the need to move on from light

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trading experience

station and local interests (such in the northern part of Honshu stage of an Advanced Thermal model (one-third commercial as fisherman's lobbies) who island where local power Reactor (ATR) which would size). Japan has achieved good The task of "selling" nuclear tremely high and the fast be useful before the coming dens by introducing a system power to a reluctant nation by breeder reactor, in particular, age of the fast-breeder urder which communities means of financial incentives poses a set of delicate problems. In the area of nuclear fue or improved safety precautions in international relations—rive cycle development Japan is one of the main challenges. American opposition to its pressing problem is to development.

The most that can be said about Japan's reactor programme today is that it is being pushed cautiously forward while a careful watch is kept on possible shifts in U.S. policy. A crucial decision, due to be taken before the end of 1980, will be whether to proceed with a programme for the development of relatively heavy—not to speak a Japanese ATR which has of disposal problems created by already cost around Y120bn and which is now ready to move forward from the phase of operatwater reactors to fast-breeder ing a prototype reactor to that reactors perhaps via the interim of building a "demonstration"

poppese having it on their terricompany which operates by another advocates of nuclear only conventional power original Japanese technology in doubts exist about the learth power have proposed a sweeten stations.

pressing problem is to provide itself with the capacity to reprocess its own fuel from 1990 onwards, when existing reprocessing contracts with France and the UK will have come to an end. The Government has so far constructed a pilot pro-cessing plant with a capacity of 200 tonnes of fuel per year but a much larger plant, able to handle up to 1,200 tonnes, would probably be needed to deal with Japan's requirements during the 1990s.

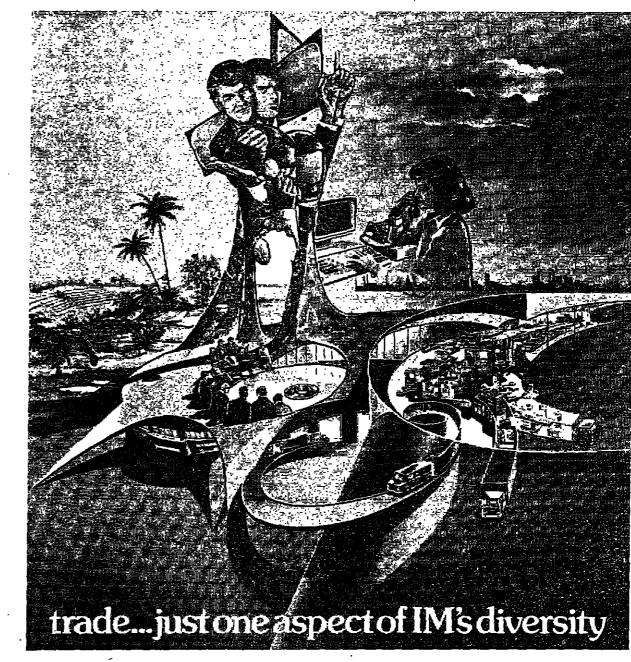
A private company, the Japan Nuclear Fuel Services Co., has been formed to build such a plant (with the bulk of equity held by Japan's nine electricity generating utilities). The financing of the venture. however, has yet to be discussed in any detail and doubts persist about the attitude of the

U.S.
Under its present bilateral agreement with Washington Japan is obliged to seek American approval for any plans to reprocess nuclear fuel burned in light water reactors if the fuel was originally enriched by the U.S. (a condition which applies to about 90 per cent of the fuel used in Japan). American attitudes to the proliferation of reprocessing activities have been negative to say the least under the Carter Administration and there is a risk-if only a small one—that the pro-ject could be blocked by Wash-

Because the nuclear fuel cycle in Japan is not yet anywhere near completion and because of unresolved doubts in other areas (such as the eventual cost of demolishing existing nuclear reactors) there is no certainty that nuclear power will be as cheap throughout the 1980s as it is today. Nuclear power stations should, however, continue to cost less to operate than conventional oil-powered stations, and far less if the cost of fuel alone is considered.

Because of this and the sheer impetus built up by the massive research and development expenditure which has already been undertaken. Japan seems certain to press ahead with its nuclear programme. Its current position as a "junior partner" to the U.S. in the field of nuclear power would seem likely to change very substantially by the end of the decade as nuclear reactors based on indigenous Japanese technology replace the U.S. current generation of light water reactors.

As a force in world markets, the Japanese nuclear industry has yet to make itself felt-exports of components in 1978 totalled a mere V14bn and no complete nuclear "systems" have yet been sold abroad. In this field too, however, the industry probably has a consider able future.



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Financial Times Monday July 21 1980





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# High technology as driving force

JAPAN VIII

### INDUSTRIAL STRUCTURE

AYAKO DOI

THE INDUSTRIAL slogan of post-war Japan was: Catch up and overtake the industrial we have caught up on almost fortunately, that we no longer have a model to look to." So says the official who edited the "Vision of Japan's industry in the 1980s" published by the Ministry of International Trade and Industry (MITT) last April. The "Vision" will hopefully offer a new national goal of the kind the Japanese have been used to having since the start of the nation's modernisation.

The concept put forward in the MITI vision is that of a technology-based nation." Japan, according to MITI, should become not only a highly efficient manufacturing centre but also a sophisticated laboratory of new and original tech-nologies. "The period when Japan made progress by apply-ing and improving existing ideas has already come to an end," the book argues. "What comes next should be a period of creativity and original initia-

### Realisation

MITI claims that the idea of using high technology as the propelling force behind the Japanese economy is widely accepted throughout the public and private sectors. Behind this consensus lies the realisation that the oil supply situation will not improve and may worsen during the next few years. Japan learned from the first oil crisis in 1975 that it must acquire an energy-efficient, high value-added industrial structure. MITI concludes from this that in future Japan should concentrate on using its only natural resource — brainpower.

and an increasing scarcity of oil Japanese industries have alternative energy sources, the made significant improvements in energy conservations since the first oil crisis. Between 1973 and 1977 industrial energy consumption per unit of value the vision predicts. added was reduced by 30 per Even before MII

great in the steel industry, the electronics industry had energy sources from oil to coal as well as to reduce total consumption. Last year the industry has now passed that of the U.S. consumed less than half as much oil as in 1973.

According to a survey of longterm energy supply and demand prospects made public last year the Agency of Natural Resources and Energy (a MITI offshoot) Japan should achieve West. Today we can say that a 12 per cent saving in energy we have caught up on almost by 1985 and a 15 per cent all fronts and overtaken in saving by 1990. With the presome areas. This means, un- sent enthusiasm for energy conservation in all sectors of the economy it appears that the goal might even be reached without any sweeping changes in industrial structure.

> "If energy were the only problem," says Mr. Takanori a senior Tanabe, industry research analyst at Nomura Research Institute, "we would have no need to go through structural changes." However, structural change has been occurring in Japanese industry independently of Government targets or predictions. A continuous process of change can be traced back to the pre-war period when textiles were the locomotive of the national

Clothing and textiles appear high on the list of Japan's exports until the early 1960s. As the steel industry recovered from wartime devastation the Government began to promote wide range of steel-using industries such as shipbuilding, chemicals, and motor manufac turing. Steel itself held its position as the largest Japanese emport item until it was displaced by cars last year.

Next after cars and steel will come semi-conductors — or at least semi-conductor-based products—in the opinion of many analysts. "The silicon age is the name I would give the period we are now entering." says Mr. Tanabe. " It will follow the 'silk' age and the steel age in the annals of Japanese industrial development

by ICs and LSIs, do indeed seem to be at the core of MITI's technology-based nation." To gether with other high tech-To cope with rising prices nology industries such as new materials, life science and semiconductor industry spur further technological development and provide the basis for economic progress' Even before MITI published

cent. Savings were particularly its Vision the Government and and development. which tried hard to switch its invested Y70bn (\$320m) in

developing VLSIs whose technology, many observers believe The present friction between

Japan and the U.S. regarding the computer and semiconductor industries," says Mr. Yuji Masuda of Hosei University in his book "High Technology Industry, "is an inevitable result of the shift in the economy towards Japanese higher technology industries founded upon such traditional heavy industries as steel, automobiles and electrical appli-

### Research

Development of new technologies involves, however, high risks and large investments. According to the Agency of Science and Technology. Japan spends only 1.7 per cent of its GNP on research and development, compared with 2 per cent for the UK and West Germany. 2.4 per cent for the U.S. MITI hopes to raise the ratio to 2.5 per cent by 1985 and to 3 per cent by the end of the decade.

For a start it has announced

a plan to invest Y17bn (\$77m) over the next eight years for the development of fine ceramics, the material expected to replace metals in various pro-The Government also cluding Y147m on basic research the bill.

Although the increase in Japan's development expenditure may prove to be remarkable the amounts will still be small compared, for example, the \$20bn the U.S. plans to spend in ten years on the development of new energies. The absence of a significant defence industry, in the view of some members of the business community, is a grave disadvantage in this respect. " Despite all the talk about technology there is a limit to what we can develop with the amounts of money that will be available. say Mr. Masao Kitahara, an economist at the Long-Term

Others, however, are more optimistic. "Technological development is not only a function of money" says a Nomura analyst who also point out that R and D spending by the private sector is proportionately much higher in Japan than in the U.S. Fujitsu and Nippon Electric spend 6.4 per cent and 5.1 per cent respectively of their sales income on R and R compared with 6 per cent for IBM, and 4.4 per cent for Texas Instru-

Credit Bank of Japan.

Toyota's R and D expenditure has been running at 3.7 per cent of sales while General Motors spends only 2.6 per cent. Over-all, 66 per cent of Japan's R and D spending is accounted wants to spend Y2.900bn R and D spending is accounted (\$130bn) in ten years on the for by corporations while in development and commercialis- most other countries governation of alternative energies. in- ments pick up more than half

should be in the field of energy conservation rather than in the more costly development of tronics, information and com-

Normura researcher. He cites industrial robots as the most promising product of the 1980s sophistication that will be made with the present Y360n a year possible by electronics a year market set to grow at a Nomura Research Ins a year market set to grow at a Nomura Research Institute's speed of about 30 per cent per Mr. Tanabe is, on the other year for the coming decade.

### Superior

Another important trend in the development of Japanese industry has been the emergence of the services sector. The contribution of services to Gross Domestic Product (GDP) increased from 49 per cent in 1970 to 58 per cent in 1977 while the share of the manufacturing sector fell from 44 to 37 per cent (according to MITI). The service sector employs 55 per per cent of the working popula-tion today compared with 47 per cent ten years ago. Japan, like other industrial countries has thus become a service economy following the American pattern (where 70 per cent of GDP is accounted for by service indus-

Structural change cannot alter the fact that Japan has port-orientated economy. "Ex-ports are the only way we can to support a comfortable oil feed ourselves," says Mr. 200 been, and always will be, an

Given the limits on spending Hroshi Takechi, director in some observers argue that charge of research at the Long-Japan's contribution to improve term Credit Bank of Japan. He ing the world energy situation predicts in his recent book on industrial structure that Japan's exports will be led by eleccompletely new energy sources. munication systems, energy "Our knowhow in manufactur- saving devices and specialised ing processes is far superior materials. "Traditional" items to that of other countries," says such as cars and optical goods, however, will continue to thrive thanks to the higher degree of

> hand, concerned that too much emphasis may be placed on technology. "I doubt whether we can have healthy manufacturing industries without healthy basic industries such as steel," he says. The first half of the 1980s, according to this view, may be a critical period for the Japanese economy in which the managers of basic industries will make or fall to make in vestments in renovating their production capacities. We will be able to tell during this period whether or not Japan is def-tined to follow the path of the U.S. steel industry in the 1960s.

Considering that Jap. 8 gradually becoming an "aged society" — 11 per cent of the population will be over 65 years old in 1990, a proportion rising to 15 per cent in the year 2.00 — the 1980s may also be the period which will determine whether the nation will be able

says Nomura.

# Fine record of achievement in heat conservation

tries).

### STEEL

MARK MEREDITH

these days, even in Japan's most modern integrated steel mills, and half the energy used is lost. The work of coal, electricity and oil dissipates in steam or unreclaimed heat from furnaces and hot metal.

As the single largest industrial user of energy in Japan, accounting for about 15 per cent of energy demand, steel was an obvious candidate for conservation. And from the steel industry have come some of the greatest achievements in conservation. Japanese steel plants today require much less energy than their main Western competitors, only two-thirds as much as British works, for example. The industry has also managed to cut back its energy consumption since 1974 by nearly 10 per cent.
Examining this industry

through its use of energy helps explain the comparative good health of steel in Japan at a time of reduced international demand and excess production

capacity.
In June the five steel giants -Nippon, Nippon Kokan, Sumitomo Metals, Kawasaki and Kobe Steel-announced profit increases over the previous year of between 87 and 187 per cent. What really puts the figures in perspective is the fact that the industry made this kind of money while working at something below 80 per cent

prices, the effect on exports of a depreciation in the yen and recovering domestic demand all helped. But so too did the capital investment in energy saving and improved production techniques — Y4.600bn between 1973 and 1977—which has started to pay off.

### Motivation

These were investments which put Japanese steel techinves/ments nologically far ahead of its international competition. World capacity in 1977 was

calculated at between 80m and 90m tonnes a year, while actual production reached 692m. Despite the rising cost of energy there was little motivation for other steel producers to make the investments in energy saving and new production. This has left Japan in a strong posi-tion to weather the recession, compete effectively with producers among the newly industrialised nations, meet demand for new types of steel and. ibove all, save on its fuel bills. Japan is the world's third largest producer of steel after the Soviet Union (150m tonnes

with an annual output of 111m tonnes. West Germany ranks fourth with 46m tonnes. Taking a closer look, the checklist for an energy con-scious steel industry might look

a year), and the U.S. (123m),

Its efficient use of coal.
Its recovery of waste heat and gas

The amount of steel produced

fuel-efficient method Its yield or ability to make

Japan's steelworks import 90

mostly under long-term supply as much again to feed into the Kimitsu works about 15 men agreements with Australia, the local municipal electricity backed by computers and an U.S. and Canada. The revival supply, of interest in coal, especially steaming coal, as an alternative

coal prices generally and spurred the drive for greater efficiency in the use of coal in

to oil-fired power has pushed up

industry. ease import bills, the industry has moved steel effectively to make the most-out of the coking coal used in the blast furnace to create pig iron. Through improved monitoring and controls, the Japanese ratio of coke to a tonne of iron has been pared down to below

Britain, 597 in the U.S. and 546 in the Soviet Union). Some plants have started to move away from the use of the crude oil which is injected into the blast furnace by replacing it with powdered coke. This has only marginally increased the amount of coke used and brought oil consumption down from 15m kilolitres in 1973 to

430 kg (compared with 602 in

Energy checkpoint two is the extent that waste heat and gas are recovered. One system uses the pressure of gas produced in the blast furnace to generate clectricity at a nearby turbine. Twenty-two of these so-called top gas pressure units have been fitted to furnaces in Japan. The power from the giant blast furnaces at Nippon Steel's vast Kimitsu works near Tokyo is sufficient to supply all the elec-tricity needs of the plant and

### Kecycles gas Both the Nippon and Kawa-

saki works also use a method of recovering gas from the oxygen furnaces used to make steel. This OG method recycles the gas to burn in another furnace at the start of the hot strip mill where slabs of crude steel are formed into shapes. Gas recovery in 1978 was worth about 12m kilolitres of oil.

Two sub-points on the list for energy saving would be the use of dry quenching in ironmaking to allow the recovery of steam for heating Three such units are in operation in Japanese works. The other is the current study of ways to recover heat from slag.

Next on the checklist is the extent of continuous casting, one of the yardsticks of a modern steelworks. The thinking behind this German invention is to combine all the procedures of making crude steel into one operation to avoid reheating and recasting before the metal's arrival at the mills to be shaped. Under the traditional ingot system molten steel is poured from the blast furnsce into ingot moulds which must be reheated to form slabs.

In energy terms, continuous products. casting uses up to two thirds
iess fuel than the primary mill
ingot method. At Nippon's of oil will in effect have to in-

electricity backed by computers and an array of television monitors run the continuous casting operation, guiding a sheet of nolten steel poured vertically from the furnace on to a roller bed which curves to the horizontal leading the steel to a mould to be shaped into a slab.

In 1978 only about 20 of the steelworks were equipped with continuous casting; now the ratio is about 50 per cen and may reach 70 per cent in 1982 This compares with 38 per cenin West Germany, 36 per cent in South Korea, 15.5 per cent in Britain and 14.2 per cent in the U.S.

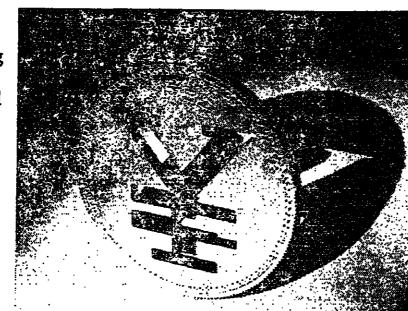
The final point on the energy checklist, yield, should be marked in red. Yield shows diciency of crude steel production making maximum plant facilities in creating fin-ished steel products. For example, crude steel production increased 11 per cent while the amount of finished products increased 22 per cent. More pro ducts were being made out of crude steel, reflecting more effective crude steel production and less waste. If the yield during this period had not ris seven per cent, another 5n tonnes of crude steel would have had to be produced to ge the same amount of finish

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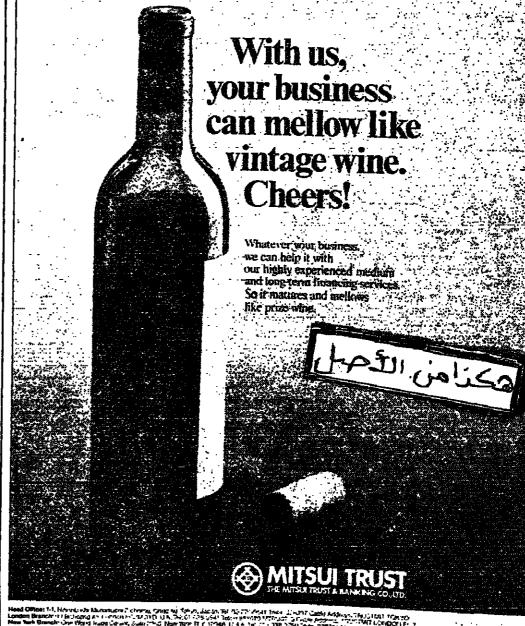


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# Futuristic solutions will save energy on the farm

### AGRICULTURE

MARK MEREDITH

THE ENERGY crisis has made THE ENERGY crisis has made lapan the home of the high-speed lettuce. Outside Tokyo a full grown 200 gramme lettuce has been produced in eight days instead of the normal one and a half months. While its nutritional value has yet to be fully analysed, the lettuce tastes better than the slightly tired variety trucked in long distances from the farms, according to Dr. from the farms, according to Dr. Masamoto Takatsuji. Six years ago he was pulled off his research on lasers to work in the well-guarded laboratories of Hitachi, the electronics giant, on the development of high density urban gardening There, on the outskirts of Tokyo, sun, soil, farmer and most of the expensive marketing operations were being by-passed to create truly cost-effective vegetables.

Behind the stainless steel doors of a laboratory cabinet, basking in the light of fluore-scent strip lighting, absorbing three times its normal dose of carbon dioxide and supervised by microprocessors, a large test green pepper seemed about to set a personal best growth time.

### Avoided

While the plant consumed energy in the form of constant all lighting the other food production costs were avoided, giving the plant, even at this experimental stage, a cost value already at a par with the

The shortage of energy in Japan has not had anything like up the impact on agriculture as it national has on industries such as steel and the Ministry of Agriculture, and power. But the crisis has which launched a spawned an extensive and en- energy" thusiastic array of hoffins rang. ponse was impressive.
ing from Dr. Takatsuji to the Professor Sakuzo local farmer reporting a viable system for heating his barn on the methane gas produced from

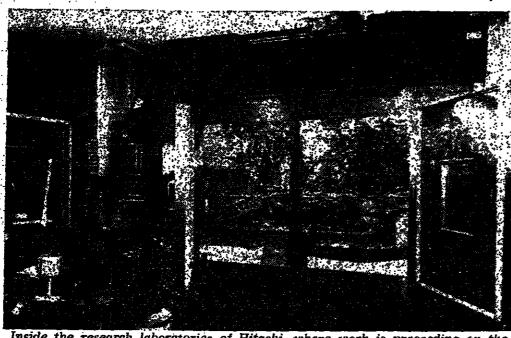
Industry too has been quick to adapt to higher energy costs

Hitachi's researchers foresee the day, though possibly not for five or ten years time, and pos-sibly not even in Japan, when vegetable factories will be built in industrialised areas. Vast endless belts will nudge than 10 per cent regetables through their abbreviated gestation. The plants would be grown hydroponicelly - without soil and suspended in water laced with a dose of fertiliser. As the plants of the light spectrum to grow the U.S.) and farming land and these are found in fluores covers only about 15 and cent lights the cent lights, the sun would be of the country.
redundant. A mass spectro- But the ruling redundant. A mass spectrometer will measure the light
and temperature required for needed the farming vote and

uch as hot rolling, cold rolling,

ange beam making, plate, sheet ad pipe manufacturing can

ork at near capacity.



Inside the research laboratories of Hitachi, where work is proceeding on the development of high speed growing of vegetables

Company which publishes the periodicals on farm mechanisa- \$1,3 tion. He is another exponent city gardening to by-pass marketing and fully expects the average home of the future to be equipped with an indoor conservatory growing a rice crop in 90 days on one shelf, with tomatoes, lettuce and other vegetables on other shelvescomputer-guided to meet

regular demand. The Japanese sector consumed a relatively minute 46m kilolitres of oil in 1979—most of it used mechanised equipment. But conservation studies were set by both the powerful farming co-operative

came up with his plan for exforests was another problem as land is scarce but the sugges tions designs and inventions

programme. The res-

came thick and fast All the energy measures, however. will do 1976. Their farms are small, averaging about 1.2 hectares (compared with an average 64

and temperature required for needed the farming vote and obliquing growth and instruct a the farmers, realising their computer to memorise the treatment for use in mass production, it is in colestial agronomy, and beef. Rice production, designing farms for future space stations. He also is preticed the farming vote and cally mean four-star rice fuel keeps much of its heat do can follow. Efforts are being made, however, to encourage and however, to encourage artificially high for their main rice consumption through inventous like rice champagne or mer who built a mound of stones in his greenhouse. "One solution," said Mr. warm air of the day inside the ricks by a small fan to wident of Shin - Norinsha by huge subsidies which pay plant a large solar panel in his a sort of storage heater.

farmer approximately paddie instead of rice." Univer-\$1,300 a tonne when the average world price is \$200. This has led to surpluses estimated last year at 72m tonnes.

Despite a self-sufficiency of

about 70 per cent in the prothe world's largest net importer of agricultural products and is to the smallness of its farms and likely to become even more at the same time has captured dependant on imports in future.

Efforts to diversify crops away from rice have met with little success and hopes of some degree of self-sufficiency in other crops seem remote.

U.S. grain embargo against the Soviet Union following the invasion of Afghanistan struck a sensitive nerve in Japan The Ministry of Agriculture recently announced an emergency contingency cultivation plan to meet a crisis in which Takeda half the grain imports were cut off. Were food imports to he tracting oil from eucalyptus halved, according to the tree leaves. A Suzuki motor-Ministry, the totally planted bike was even successfully run acreage would need to be inon the fuel. Planting the creased by 30 per cent, or 7.5m

### Unwilling

The small farm units have effectively prevented more nothing to solve the fusdamen-efficient farm management and changed the pitch of tal problem of Japan's agricul-sky-rocketing land prices have give better results. efficient farm management and changed the pitch of the fan to ture. Farmers constitute less meant that farmers are unwilling to sell their plots. The farm population and contribute a de-population meanwhile declines energy storage than other sec-clining part of the net national as many farmers take up jobs tors. Farmers writing into the product—about 4.5 per cent in inidustry and tend their fields agricultural Press report they at weekends.

The surplus rice, says Mr. Kishida, the publisher-cumspace farmer, cannot yet be profitably converted in fuel which would be a convenient solution. The advances already ended pipes to allow the warm made in the production of rice air of the day to circulate and wine, or sake, do not automati- heat the soil. The soil then cally mean four-star rice fuel keeps much of its heat during

sity scientists in Japan report the development of a cheap eventually mean the economic construction of a solar panel turning sunlight directly into electricity.

Japanese industry has adapted tractors under 40 hp. The industry also adapted quickly to the need to conserve fuel. Yanmar Company came up with a powered by diesel instead of the traditional petrol engine and consuming approximately half company to get into the small tractor business, has also pro-duced a diesel-powered, fourwheel, nine hp tractor,

Shikawajima adapted microprocessors to its tractor transmissions to pro-vide maximum fuel efficiency relative to load and gear.

Kaneko to increase the economy of grain and rice driers. farmer can now select the moisture content he wants and not consume excess electricity and paraffin. The farming industry seems

tors. Farmers writing into the agricultural Press report they can overcome frost damage by using soil banks with the green houses. The greenhouses are double-glazed with plastic sheet-ing and the soil beneath the house is planted with open-

A cheaper form of heat storage came from another farmer who built a mound of loose stones in his greenhouse. The warm air of the day inside the greenhouse is circulated through the rocks by a small fan to form

managers seems to be that Western European and American steel producers will have problems enough preventing

further losses, let alone embark-

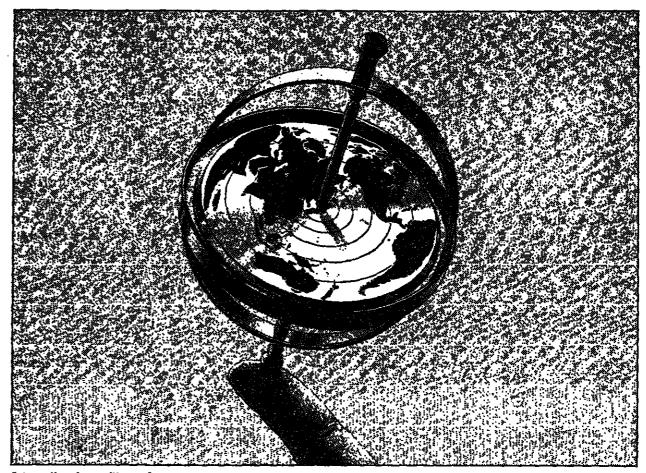
ing on new product lines or extensive capital investment in improved technology.

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company active in the U.K., we

exports and are always seeking new product lines for the

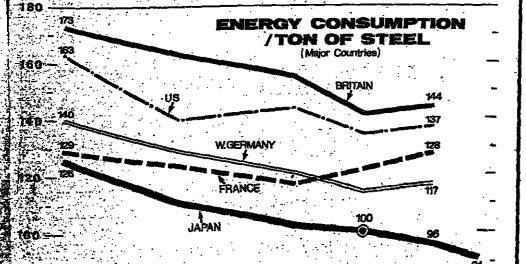
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Achievement

crease a good deal more to en-courage more radical capital spending on energy conserva-tion systems in steelmaking. Of the Y648bn of capital in economy out of the destruction the pipes to carry oil at great restment in the industry last of the war. The accent is mov-depths underwater or through rear, 52.2 per cent was related ing towards service industries. Arctic conditions create fresh to energy conservation and two and new applications of electronics. But steelmakers still steel.

see a strong role for steel. Mr. Tsutomo Kono, general
Their principal source of manager of Nippon Steel's corthree per cent of this spent lirectly on energy saving invest-Energy-orientated invest-neuts have meant that Japan-

ise steel is better equipped to ide out the oil crisis and slow international demand and to be ady to meet demand recovery. Greater yield through energy-sying techniques like continu-us casting have also meant hat the finishing processes

new types of steel.

Steel, for example, accounts for between 75 and 80 per cent of the weight of a car. The challenge to steel manufacturers now it to produce lighter highstrength steels for the motor for new high-strength steels.
industry to help produce more The assumption among its senior

Japan is in the midst of struc-tural change, moving the demand is also there for more emphasis away from the heavy industries which led the The rails for faster trains and

encouragement comes from the demestic economy. Shipbuilding department, also feels the is showing signs of moving out of the dumps, but more important is the growing demand for new types of steel.

This would correspond to the slow rates of growth and reduced expenditure to be expected among industrialised countries over the next few years.

It is clear that Japan hopes to dominate the growing demand for new high-strength steels.

At the same time the Japanese hope that the growing competition in steel from the newly industrialised nations such as South Korea or Taiwan will be restricted to traditional lines and not enter the new highstrength market. Intrinsic to the survival and continued likely dominance of

the Japanese steel industry will be its own self-regulatory quali-ties. "Orderly marketing" is a term which grew out of the steel industry to describe the pro-cess of consensus between the steel producers as to their production level, markets and The vehicle for this consensus

has been the omnipresent Ministry for International Trade and Industry. The guiding hand to steel during the lean years after the first oil crisis, the Ministry is less influential now about marketing and production levels but issues quarterly fore-casts of domestic and export demand and presents industry with an idea for the right level of production.
This "We're-all-in-it-together"

approach to the fate of the industry has allowed Japanese steelmakers to fine-tune production to meet recession and eventual demand revival. They have worked out ways to run their plants at below capacity to reduce cost and still make money. They have made huge savings through energy conservation and they have allowed manning levels to subside through natural wastage.



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# Major projects are all offshore

PETROCHEMICALS

JOHN FUJII

JAPAN HAS three major offshore petrochemical projects underway but surprisingly enough none of them is designed to provide more supplies for the domestic

The three offshore projects are the multi-billion dollar petrochemical complex the Japanese are building at Bandar Kohmeini, Iran; the joint venture with Singapore to build a petrochemical complex on Merbau Island off Singapore; and the huge petrochemical project planned for Al Jubayl

in Saudi Arabia. The Japanese are also interested in a multi-nation petrochemical project Prudhoe Bay, Alaska petrochemical

The eldest overseas project is the Iran complex, which was proposed back in 1968 as part of the industrial plant export programme. Construction started in 1971 and is believed to be 85 per cent complete, but has been untouched for the past 16 months because of the political unheaval in Iran. Since then the Iran Government has been pushing the Japanese to resume the project but disagreement about feedstock and financing have further delayed the project.

Even if the project is resumed in the near future there is still the problem with bishi group. the condition of the equipment. which has been lying idle in the desert, and the question of who is to operate it after completion. So even if all remainng issues are ironed out, it is likely to go onstream, if ever, before three or four years. The Iran Chemical Development Company is currently discussing the issues with the out for the project. Iran Government.

Ground-breaking ceremonies an ethylene centre might be were held on July 17 for the started sometime in 1981. nfrastructure has been com-Government and the Japan-Singapore Petrochemical Corinvestors.

Japanese Government Overseas Arabia back in 1970. But it now 18 petrochemical com-Economic Co-operation Furd was put on the back burner binates in Japan. (OECF) is putting up 30 per after the 1973 oil crisis, which Ethylene production in 1979 (OECF) is putting up 30 per cent and a Japanese investment group of 28 companies headed by Sumitomo Chemical Company is putting up 70 per cent indicate economic co-operation growth in demand is projected of the Japanese half of the with Saudi Arabia to ensure a 21 6 or 7 per cent about the

S\$16m while the Singapore Government is putting up 47.5 per cent and the Singapore Development Bank 2.5 per cent of Singapore's share.

A Sumitomo Chemical spokesman said that construction is scheduled to be completed by the summer of 1982 and that the complex is to go onstream in the autumn of the same year. Output is expected to be 300,000 tonnes/year of ethylene.

Additional downstream companies are to be established such as the Polyolefin Company (Singapore), with 120,000 tonnes/year of high-density polyethlene and 100,000 tonnes/ year of polypropyelene; the Philips Petroleum Singapore Chemicals with 80,000 tonnes/ year of low-density polyethlene. while another company, net not established, is to produce 80,000 tonnes/year of ethylene oxide and 100,000 tonnes of ethylene

The Japanese Government has decided that the Singapore petrochemical complex is to be a national project since 28 companies in addition to the OECF are putting up the funds.

### National

The third offshore project is the Saudi Arabia petrochemical complex. This also is a national project and involves 54 Japanese companies headed by the Mitsu-

An agreement was signed recently by the Saudi Petrochemical Development Company, the Japanese investment consortium, and the Saudi Basic Industries Corporation (SABIC) for a feasibility study due for completion in March 1981. Only after the study is completed are the final details to be worked If the study shows that the

Meanwhile the Singapore pro- Al Jubayl project is commer-ject seems closer to reality cially feasible, construction of

The proposed project is to use gas from the offshore fields pleted, so the way seems smooth near Al Jubayl to produce for the Petrochemical Corpora- 450,000 tonnes/year of ethylene. tion of Singapore, a 50-50 250,000 tonnes/year of high-venture between the Singapore density polyethylene, 80,000

sharply increased building costs.

1977 as a national project to were 1.62m tonnes. Normal stable petroleum supply.

The Al Jubayl project was further delayed when Saudi Arabia upped the scope of the complex to 450,000 tonnes/year of ethylene.
As can be seen, these three

projects were not initially planned as part of the Japanese petrochemical industry. The projects in Iran and Saudi Arabia were designed to ensure a steady source of petroleum while the project in Singapore was part of Japan's economic assistance programme to the South East Asian nations.

Mr. G. R. Baker, president of Dow Chemical Japan, believes that Japan must go offshore with petrochemical projects. "It's to Japan's advantage to go offshore where energy costs are less, land costs are less and raw material is available," he

Mr. Baker estimates that in Japan energy costs are at least 4.5 times those in the U.S., while land costs are 10 to 30 times more. Of course, imported raw material costs are high, compounded by rising shipping

Asked why Japan could not buy directly from countries like the U.S. where costs are lower, Mr. Baker explains that additional capacity is not available for Japan.

Japan needs sources where supply is reliable, quality is consistent, pricing stable and inventory variable.

Mr. Fukashi Hori, chairman of Asahi-Down, a joint venture between Asabi Chemical of Japan and Dow Chemical of the U.S., also feels that Japan should build new petrochemical plants overseas. He notes that 80 per cent of the petrochemical costs are in raw materials and energy and only 20 per cent in fixed costs.

At present there is 6.2m onnes/year capacity in Japan for ethylene, of which 10 per cent is non-operative because of

outdated equipment. A Japanese Ministry of International Trade and Industry survey showed that out of 12 density polyethylene, 80,000 major petrochemical products, tonnes/year of low-density poly-seven were produced by plans ethylene and 150,000 tonnes/ over 10 years old. Only styrene year of ethylene glycol. Some monomer and isopropene rubber of the production will be are made in relatively new shipped to Japan but the plants. Oldest are styrene butaremainder will go to other dine rubber facilities (13 years). while acetaldeyne plants are 12 This project, initially for a years old. Ethylene plants were 300,000 tonnes/year ethylene found to be on an average of complex, was proposed by Saudi 9 years and 4 months. There are

Ethylene production in 1979 was 4.7m tonnes, while in the The proposal was revived in first four months of 1980 they

> by Idemitsu Petrochemical in Chiba. Land is available for the project but it is expected to take several years before contruction actually starts because of local anti-pollution opposition.

There is an oversupply of. ethylene products by 1.5 months at present, which could build up to 1.8 months' supply if the demand in the second half of the year continues to decline.

According to a Fufi Bank survey domestic demand for petrochemical products, mainly synthetic resins and synthetic rubber, was favourable in fiscal 1979, thanks largely to the growth in production of electric home appliances and auto-

In Tokyo...

purchases may cause a downturn in demand for synthetic

Because of the growing selfsufficiency of Taiwan and South Korea, as well as the competiroughly 300,000 tonnes annually.

The only major project for of raw materials for synthetic expansion in Japan is the profibers, will continue to organize by Identity and the profibers.

The price of naphtha, both domestic and imported, hovered around \$300 per kilolitre. This is a big contrast to previous years, when the domestic price was about \$30 higher than the international price to the exchange rate.

More and more of the Japanese companies are turning to fine chemicals as a means of increasing demand. Both at Asahi-Dow and at Sumitomo Chemical, spokesmen explained that demand for more valueadded products in the agricultural and pharmaceutical fields

is growing. Sumitomo said that there was a brisk demand for aniline from mobiles.

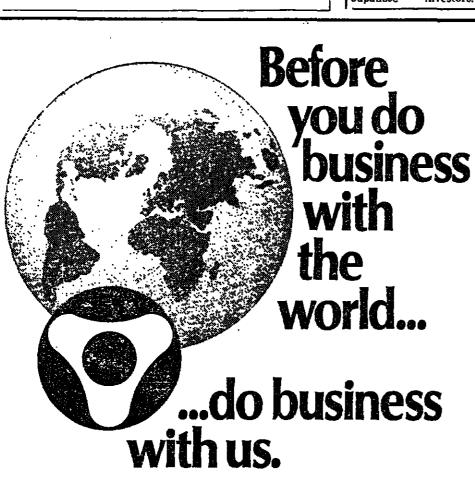
In addition, anticipation of higher prices prompted speculative demand. In the latter half of fiscal 1980, however, the re-

percussions of these speculative sold well for construction, adhesive and paint applications Shipments of epoxy resins showed a noticeable increase. especially for cationic electrodeposition use by the automo-

bile industry. A number of downstream plants are going up. Sumitomo said that a 5,000 tonnes/year recordinol plant is under construction using a pollution-free hydroperoxide process and is scheduled to go oustream this autumn. A plant for producing l-amino anthraquinine by a mercury-free process is also to be commissioned by the end of

this year. A Japanese research group subsidised by government funds, is expected to start car-bon monoxide development this Research will centre on fall ethylene glycol, as a raw material for polyester flores ethanol, acetic acid and hydro-

The purpose is to obtain processing knowhow for production of ethylene glycol and other chemical proucts from carbon monoxide by fiscal 1986 at an estimated cost of \$68m. The project is designed to reduce dependence of the chemical industry on petroleum derivatives for chemicals.



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# Oil price aids U.S. sales

### THE MOTOR INDUSTRY

AYAKO DOI

THERE HAS never been a time when Japanese cars were so popular all around the world. Japanese car exports in May reached 498,171 units, the highest level for a single month. In the U.S. one out of five cars sold on the market is now Japanese-made. In Europe. though the number is still small-89.702 in the nine EEC countries in May—the Japanese share is increasing rapidly. Sales in the Middle East jumped almost 80 per cent up from the corresponding month last year to 50,000, the majority of them to Saudi Arabia. The gain in South America was even more impressive—140 per cent for the

area and 240 per cent in Chile. Moreover, Japan has beaten the U.S. as the world's biggest car producer in the first six months of this year, producing 5.46m vehicles compared with 4.42m for the U.S. Toyota and Nissan count themselves among the top three car makers of the world along with General Motors, and they are likely to stay there for the whole of 1980. What makes these figures not only impressive but also annoy-ing is the depression in other

car-producing countries, notably the U.S. The number of cars sold by the top four American manufacturers plunged 37 per cent from last year to the worst level in 20 years. Production in the third quarter (July-September) is expected to remain at the low level, leaving U.S. House of Representatives' the already unemployed 320,000 workers still out of work. In Europe, Ford in West Germany experienced a 15 per cent loss in sales in the first four mouths of this year, while the market share of the Japanese imports 10 per cent. In the UK. 14 per cent of the market is taken by the Japanese, and the figure is up to 29 per cent in the

In the eyes of those whose quality of the Japanese import markets are invaded, Japanese far exceeds that of the U.S.

makers are expanding their sales at the cost of local industry. For the Japanese, however, what is happening is that their pro-ducts are simply filling the demand that local manufacturers cannot supply.

The reason for the remarkable performance of Japanese vehicles, needless to say, is their fuel efficiency. According to the U.S. Environmental Protection Agency, of the 50 most fuel-efficient sub-compact fuel-efficient sub-compact models available in the U.S., 32 are Japanese. Although Volkeswagen's Rabit beats all other models with an amazing 42 mpg, the variety of products from which consumers can choose above 25 mpg is much greater with Japanese.

### Focus

Japanese cars, which had steadily been penetrating the U.S. market since the late 1960s. became the focus of consumer attention after the oil crunch early last year. The shift of consumer preference towards smaller cars was accelerated by the acute increase in oil prices last December. While the U.S. manufacturers could not produce fast enough to catch up with the swelling demand, the Japanese had stocks in hand. As the recession in the U.S. pulled the total auto sales down, the Japanese share went up from 21 per cent last year to 23.4 per

cent in May. The reason for our popularity is not only the fuel efficiency," says Mr. Takeo Aral, Nissan Company's director in charge of public relations. "Our quality in general is superior to other prosub-committee on trade (headed by Congressman Charles Vanik). Affixed to the report were letters from American consumers praising the quality of Japanes products ." have owned four foreign cars doubled from last year to over over the years. They were gas savers and built like solid tanks ... you could not find anything

wrong with them," wrote one. "The reliability, performance. customer acceptance and overall

CONTINUED ON NEXT PAGE

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# Business boosted by oil purchasing

### TRADING COMPANIES

companies, which the time of the first oil crisis. Japan's trade, the amount is only enough to place them in size somewhere between Gulf and Mobil among the oil majors. and atoms among the dil majors. The trading companies them serves are quick to emphasise that their role in the energy trade is very different from

that of the majors.
There is no doubt, however, that the big traders have emerged from the latest oil crists as Japan's most important link with oil supplies. This fact alone has meant a tremendous boost in their business over the past year. The energy crists has in effect tended to accelerate a shift in the functions that the general traders perform within the economy (and more than ever before in trade not involving Japan directly). The most important post-war role of the trading company was to provide a window to the world

for Japanese companies lacking

the individual capacity to sell

products in far-flung places, the

trading companies, for a small fee, provided financing and

important information networks.

### Speculate

Their growth was spectacular throughout the 1960s and early 1970s, but as more and more of the successful Japanese companies, however, began to export on their own it became popular to speculate over whether the trading companies might eventually shrivel up and

That kind of speculation now seems to be part of a very dim past. The trading companies have discovered that size and organisational ability can be very useful in a world which increasingly depends on huge development projects to open up new supplies of energy and raw materials. The traders act as the hub of a wheel in these projects. They gather the "spokes" needed to get the job done, and are very skilled at finding markets for whatever

is finally produced.

The fastest growing areas of trading company business are in fact in energy (the bulk of which involves importing oil to

oan), and the handling of importance for the companies. trade outside of Japan (with oil and grain the two most important products). The shift into oil business has been spectacular over the past year.

What has happened is simply that Japan found it could no longer be assured of supplies through the majors. These companies had provided Japan with virtually all its oil in the 1950s handled by Japan's big general and between 80-90 per contrading companies, which the stranger manager transport.

supplies caused by the revolu-tion in Iran, however, forced the majors (in most cases) progressively to turn off the supply of oil to all but their own affiliates in Japan. The result initially was a mad scramble by the trading companies (and local oil companies) to buy oil elsewhere—i.e. either on the spot market or through longer term direct deals with the oil producing countries.

Despite problems with their contracts for Iranian oil the traders have succeeded handsomely in finding oil for Japan. At present the direct deals pro-vide more than 40 per cent of Japan's oil imports (compared with only 20 per cent two years ago, and the 45 per cent share still imported from the majors). Since mid-April the amount has been cut by a pricing dispute (tied indirectly to the U.S. sanctions issue) with Iran. The companies hope to resume lifting of Kanian oil later this year. There are hints that the arrount will be cut to less than half the 530,000 b/d of the original contracts signed in

April 1979.
The sudden shift of oil trade to the trading houses was reflected clearly in the business results reported for the accounting year which ended in March. The top six traders each reported turnover was up more than 30 per cent over the previous year. Energy and chemical divisions showed the previous spectacular jumps (up more than 70 per cent). Oil and

Ironically, under Japanese law the trading companies are not permitted actually to import oil themselves. With the excep-tion of Mitsubishi Corporation, a 1962 petroleum law limits the right to import oil to the oil right to import oil to the oil companies operating in Japan. This technicality limits the traders in that they need guaranteed buyers in Japan before they can place orders with the oil producers. Some of the trading houses have equity

shares in the oil refiners they

Mr. Toshikuni Yahlro, president of Mitsui and Co. (whose profile appears elsewhere in this survey) believes that the oil business now is a major factor in determining the ranking of the big houses. He claims that Mitsui (the number two company) could overtake Mitsubishi but for the fact that the latter has the biggest share of the oil business. Energy and chemicals were 20 per cent of Mitsui's Y11.208bn sales last year, while thet same category accounted for 32.5 per cent of Mitsubishi's Y12.066bn.

### Commission

The boom in oil business does not necessarily mean that the companies are raking in wind-fall profits. Traditionally the big traders operate on very small margins and commissions and rely on volume. In the case of oil, price increases boost the sales total, but the companies are paid a commission on the volume they handle (not the value). The commission is generally about U.S. 10 cents per barrel, a very small sum considering the risks of the oil business.

Partly because the trading companies had their images tarnished for alleged profiteering in the confusion which followed the 1973 oil crisis, the companies nowadays like to emphasise that their involve-ment in oil is more a question of "duty" rather than of selfgas sales thave doubled in interest. Procuring oil supplies

(as in the case of natural gas coal and other forms of energy) actually requires co-operation with the Government, which in some cases negotiates directly with producing countries for long-term contracts. In con-tracts negotiated by the com-panies themselves, such as with Iran, the Government keeps a sharp eye on the terms and

Finally, the trading companies have found themselves at the centre of development projects, in the " national interest," in countries which supply resources to Japan. They are not, however, very enthusiastic these days, particularly when the projects are in the Middle East. The revolution in Iran and the troubles it has brought for Mitsui's huge joint venture petrochemical plant at Bandar Khomeini, have made the companies nervous about other large investments in the Arab

Mitsui last year went so far as to bring the Japanese Gov-ernment into its joint venture with Iran as part of its efforts to keep the project alive. Continuing the \$3.3bn project is now at least indirectly tied to keeping Iran as a source of oil. (Mitsui originally agreed to build the complex as condition for winning an oil exploration concession in the early 1970s. The concession proved worth-

the Japanese Government has promised to co-operate on is a \$2bn petrochemical complex in Saudi Arabia, to be built by the Mitsubishi group. Progress has been very slow, having just reached the feasibility study stage after being first proposed in 1976. But it appears that Mitsubishi will have to go along with it if for no other reason that not doing so might anger the Saudis (who provide Japan with 30 per cent of its oil). The trading companies (and Japan generally) cannot afford to avoid such risks if they are to

### TURNOVER OF TOP SIX TRADING COMPANIES (Year to March 31, 1980-Y bn)

	Total	H increas	Energy/ chemical related	% increase on year	Third Country business	% increase on year
Mitsubishi Corporation	12,308	36.6	3,922	76.1	765	56.2
Mitsui and Co.	11,208	34.1	2,920	73.6	1,110	68.1
C. Itoh and Co.	8,862	35.1	- 2,679	72.4	1.137	40.4
Maruberi	8,388	33.8	1,720	70.4	1.372	62.1
Sumitomo	7,600	29.9	1,934	74.5	524	83.1
Nisho-Iwai	5,769	38.1	1,429	126.1	639	49.9

# Oil price

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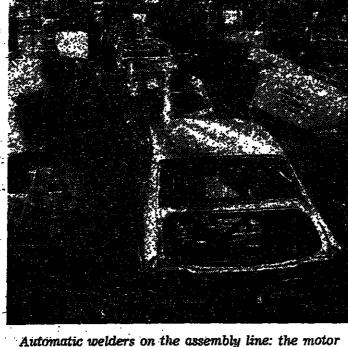
version," said a rental-car agent. Another outraged consumer asked "Has anyone ever said Don't buy a Japanese or German auto made on Monday because the workers come in too hung over to work right ? The foreign workers take pride in their product!"

The report also mentioned an opinion survey of motor engineers conducted by an American trade magazine. Almost half of the engineers interviewed responded that the Japanese cars are the best in uality. They rated the Japanese products at the top not because of their superior technology, but on account of their better workmanship and better attention to fine detail both in design and on the assembly

The confidence of the Japanese makers in their products may explain their seeming composure in responding to the demands from auto managements and labour abroad for measures to restrict the Japanese imports. Although they do not officially talk about collaborating to restrain exports, which would violate the Japanese anti-trust law, observers agree that they are ready to make some sort of

Toyota Sales Company's chairman, Mr. Seisi Kato, recently suggested that the company would accept bilateral trade regulations if such a thing could successfully be worked out between the U.S. and Japanese Governments. "I don't foresee the imposition of import quotas, given the strong support from ducts," says Nissan's Mr. Arai.
"The most likely scenario," he
continues, "seems to be an
orderly market agreement.

which eventually may force us
to establish assembly plants in
the U.S.—just like the colour
IV industry."
At the base of such tolerance
is an assumption that the
Japanese cars will remain
popular in the U.S. market, no
matter how entry is restricted. matter how entry is restricted, until the American small-car production comes in full swing in the mid-1980s. "The Americans are just starting with fuel economy, while we have been concentrating on it since before the oil crunch," says Nissan's Mr. Aral. "It takes time to find the ideal balance between smallness of space and comfert, lightness of



industry is proud of the quality of its products

To support his remark, the Vanik Report states: "The U.S. auto industry will probably continue to lose much of the small car market to imported models until at least the 1983 model year starting in September, 1982, If gasoline prices continue to rise faster than the general inflation rate, American production levels will be inadequate until late 1988."

### Drastic cut

The U.S. Department of Transportation estimates that American production of newlydesigned fuel-efficient cars will go up from the present 1.8m units to 4m in 1982. The capacity is expected to reach 10m or 11m units by 1985, of which 6m will be produced by General Motors. Assuming the U.S. auto market stays at the present size of 10m units, with 60 to 65 per cent devoted to small cars. General Motors alone can provide all the small cars American consumers will need. Even if the share of small cars increases to 80 per cent of the market, imports will have to be reduced drastically to accommodate American pro-

Japanese industry? sales will no doubt suffer cousiderably," concedes Nissan's Mr. Arai. Starting an assembly line in the U.S. is no solution, fer, if the decision is made today to invest in the U.S., the first American-made products will not hit the market until two or three years later, only to collide with newly introduced, and probably cheaper, domestic models.

announced its plans to build a stay there or go down.

passenger-car assembly facility However, one shoul in the U.S., starting operation in 1983. Obstacles are greater for Toyota and Nissan which, unlike Honda, have many dif-ferent lines of products. Nissan's decision to assemble pick-up trucks in the U.S. is con-sidered to be a response to the threatened lifting of import tarrifs on truck parts from 4 per cent to 25 per cent.

try analyst at Nomura Research overseas markets are Chile Institute, this is only a semi- (7,700 sold last year), Greece final." The final match, he (1,109) and the Netherlands believes, will be fought when (472), but they cannot be sold the American industry is pre- in the U.S. because of safety pared to fight on equal basis requirements. Asked about the with the Japanese for the sub-compact market. "The American auto industry has made the same mistake that the steel "We have never really thought What then will happen to the industry made by not investing about it"

when it should have done," he argues. "But unlike the steel industry, which was hit by the Japanese to the point where it can no longer stand on its feet, the auto industry still has a reserve of strength."

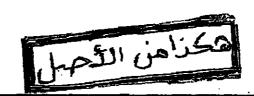
While the Japanese makers are proud of their quality, they do not underestimate the technological potential of their American counterparts.

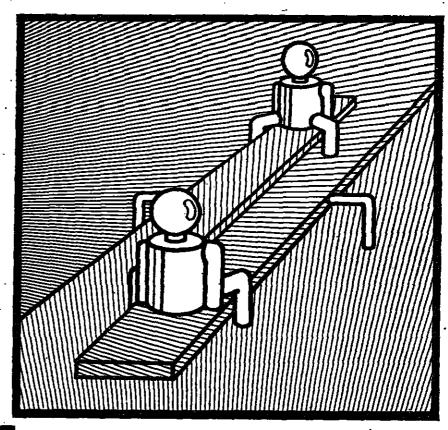
With their prices already higher than the U.S. products, the Japanese automakers will need something more than just superior workmanship to beat the Americans, especially if they are going to use American labour as well. They have tried front-wheel drive, lighter materials and a wider applica-tion of electropic deriver. They tion of electronic devices. They are working on other new technologies such as radar cars or television camera automatic

But none is striking enough be called innovatory. The electric car may change the whole picture of the industry in the 1990s, but until then, the Japanese makers will have to defend themselves with the shield of "quality."

What we should aim to do "Our in the 1980s is to defend our or con-present position," says Nissan's Mr. Arai. He, like other industry spokesmen, does not expect an increase in the U.S. market share above the present level. As for Europe, "We may go up to 10 per cent of the EEC market, but no more," he pre-dicts. The 1980s for the Japanese auto industry may not be as smooth as the past decade After all, once one reaches the So far only Honda has top of the hill, one can only However, one should always

look for new possibilities, and there is at least one, according to an American magazine—the super-fuel-efficient minicars. Moreover, they have already been made and sold all over Japan for the last few decades. Manufactured by Daihatsu. Manufactured by Daihatsu, Suzuki and Fuji (Suharu), these 126 weigh less than 1.500 "Whatever the problems are pounds and do more than 45 at the moment," says an indusmiles per gallon. Their top





# aintaining A Balance in World Trade

By the late 1980s, the traditional pattern of the oil trade will be dramatically altered as mammoth oil refineries now being planned in oil-producing countries become operational.

Having these huge new refineries, the role of oil-producing countries will change from exporters of mainly crude oil to worldwide exporters of finished petroleum products as well. Global distribution of oil products will then enter a critically complex and diversified era.

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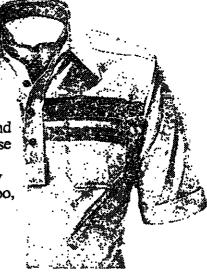
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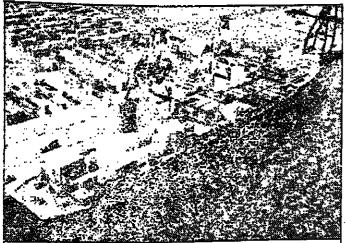
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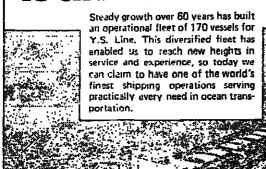


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# Growing economic partnership

### **AUSTRALIA**

HAMISH McDONALD. TOKYO CORRESPONDENT SYDNEY MORNING HERALD

JAPAN'S SWITCH from oil into alternative fuels is triggering off big developments in mining, industry and trade for Australia, and seems certain to tighten the economic integration of the two Western Pacific nations.

To an extent that rather alarms Japanese business circles, availability of supply and transport economics dictate a heavy reliance on Australia or new energy imports, particularly in steaming coal.

For Australia, the Japanese ouyers still remain the key ustomers who sign the bankable contracts that get big new projects started. This is despite liversification of the Australian resources trade in recent years, the result in large part f the emergence of new industries in South Korea, Taiwan, China and elsewhere in the

The new Japanese thrust into Australia is taking the form of investment and orders for resources to be shipped to Japan, and in the relocation of energyintensive industry such as

The most spectacular single tonnes a year of LNG from 1986. development will be the lique-fied natural gas project (LNG) ners were confident enough on the North-West Shelf, off-earlier this year to begin let-

aluminium.

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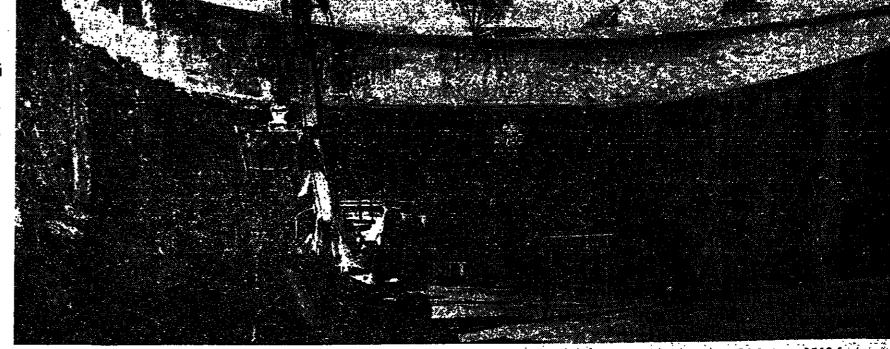
for all kinds of service.

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The Blair Athol open cut coalmine near Clermont in Central Queensland. The mine's main seam has a maximum thickness of 110 feet.

shore from Dampier in Western Australia's Pilbara region.

Woodside Petroleum Pty. and its associates are now hammering out the fine detail of a contract with five Japanese power companies and three gas utilities for supply of over 6m tonnes a year of LNG from 1986. The North-West Shelf part-

ting contracts for production facilities, despite some ruffled among intending feathers Japanese LNG purchasers about the Australian decision to strip petroleum gas from the product for separate sale. The Industrial Bank of Japan

was one of eight foreign banks to agree in June this year to a U.S.\$1.3bn consortium loan for the first part of the developnent, which is expected to cost about \$4.5bn all up.

The Australian Minister for Douglas Anthony, has put earnings from the project's LNG,
condensate, and liquified petrofunds as well as long-term conleum gas at over \$1.5bn a year tracts. (at November, 1979, prices) lian steaming coal exports to

This study saw Australia and the U.S. becoming the principal steaming

in Australia's export list, earning about U.S.\$1.660bn in 1978-1979, or 10.7 per cent of total exports. Of this about 71 per cent or some \$1.2bn went to Japan, mostly for steel produc- will serve.

estiniates of future steaming coal demand, but some rough figures are being used in Tokyo that give an idea of the way the trade could move.

The energy use targets issued by the Ministry of International Trade and Industry (MITI) last August give steaming coal import levels of 22m tonnes in 1985 and 53.5m in 1990, compared with last year's imports of about 1.45m.

It is still highly uncertain whether these targets will be niet. The cement industry has led the initial push into steaming coal, and may take imports up to 5m tonnes or so this year hut after the conversion from oil is completed in a year or two will not provide much growth beyond that.

### Reluctantly

The power utilities are moving rather more reluctantly into coal, a fuel they had rather hoped was behind them. They point out that coal-fired power stations occupy about three times as much land as oilfuelled plants, require new ports and railways and handling rigs, and present a pollution risk. In Japan, constraints on

sharper than elsewhere. The IEA meeting in May and the recent Venice summit have placed greater urgency on coal as an intermediate fuel between oil and nuclear power. In response. MITI has been goading the power companies into faster action, and has begun studying which of the country's 245 oil-fired power stations could be converted-in some cases re-converted-to coal.

The tentative breakdown of future steaming coal imports, now floating in the utilities and other consumer industries, gives Australia the largest share, with about 40 per cent with Canada, the U.S., China and South Africa supplying the rest. This would put Australian exports to Japan at some 21m tonnes a year by 1990.

Calculations by the Australian coal industry give a development cost of between A\$90 and A\$135 per annual tonne for a large open-cut mine and infrastructure. For Japan's requirements alone this means some A\$2bn in investment.

Existing railways and ports along the east coast of Australia, where most of the new coal deposits are, provide little slack for expanded coal

exports.
The Potential Japanese consumers are coming to realise that they will have to pay for scares them, or at least they pretend it does.

The Australian miners say that current steaming coal prices, which have shot up by about A\$12 to around A\$35 a

tonne over the last year, are pany, which wil take the major are moving in on possible brown still not enough to justify new role for the industry in invest coal liquefaction schemes. The Japanese say that a ments and purchases abroad. The "Kominic" group comcontinuation of this price trend wkill erode the competitive ad- in trade discussions now. Japan vantage over oil, undoubtedly has been taking uranium for true but still a somewhat pre-

While Japanese interests, particularly the big trading companies and their mining affiliates, are taking up minority equity in Australian companies Australian Minister for have figured in recent takeover and Resources, Mr. battles) in order to secure sup-

Uneasiness still exists on both either from direct exports or sides. The Australians worry petroleum import replacement, about the conflict of interest in-Over a longer term Austra- herent in end-users gaining equity and about the highly leaps, forming a large part of Japan is assembling. The the big expansion of Australian Japanese voice fears about poscoal exports forecast in May sible intervention by Canberra this year by the International to co-ordinate marketing—and Energy Agency's World Coal above all about Australia's lamentable strike record.

On the Japanese side the exporters of coal by the end of Australia is being handled at the century. Australian ext he highest level of business. In ports would grow from 38m April the Federation of Econtonnes of coal equivalent in omic Organisation (Keidanren)
1978 to some 160m by the year sent a mission to Australia under its then chairman, Mr. Toshiwo Doko. In July it estab-lished an "Australian Coal Council," on which Mr. Doko and his successor, Mr. Y. energy resources in Australia. A Inayama, (who is also chairman group of Japanese oil comof Nippon Steel Corporation) panies and the Industrial Bank for many Australian industry

Uranium is a muted subject

in trade discussions now. Japan some time from the Mary Kathleen Uranium mine controlled by Conzinc Riotinto Australia, but is not in a desperate posi-

Three electric power com at a plant in panies and the trading house similar plans. C. Itoh and Co. are to take up minority equity in the Ranger project, however, and seem likely to bring with them con-tracts for about 1,000 short tonnes of uranium oxide a year from commencement of production in 1982.

### Discoveries

The Premiers of Western Australia and South Australia have been pushing the merits of the uranium discoveries at Yeelirrie and Roxby Downs in their respective States, but seem far from gaining contracts in

The insistence of the Japanese bureaucracy on Japan developing its own uranium enrichment programme is also taking the steam out of a joint study Australian enrichment plant, although Australia has other potential partners in Europe. Japan is rather more inter-

ested in two unconventional

The "Kominic" group com-prising Kobe Steel, Mitsublshi Chemical and Nissho-Iwai will shortly begin a study with the Victorian State government on liquefaction of the huge brown cal reserves about 150 km East Melbourne. The Missui group h s been testing Victorian coal at a plant in Japan and has

The aluminium industry is so far the chief pointer towards relocation of energy-intensive acti-vities from Japan to Australia. While the Japanese industry,

under "administrative guid-ance" from MITL • is cutting capacity from 1.6m tennes a year to about 1.1m, five largescale aluminium smelters are Australia over the next four years, taking output from 280,000 tonnes a year to almost 1.3m a year, with an investment of some A\$2,5bn.

A group of Japanese com-Light Metal will hold 50 per cent equity in the Comalco smelter at Gladstone, Queensland, due to start up in 1982 at a cost of more than \$660m. Mitsui will join the comparable Alumex venture at Farley, New South Wales, while Kobe Steel is the leader of a Japanese group in the Worsley alumina refinery in Western Australia

Japan was not the leader in this trend, it must be noted, but of Japan missed out to Exxon promoters such as the West The power utilities have set in the bidding for partnership Australian premier, Sir Charles up their own joint venture, in Queenland's oil shale project Court, it is the sign of how Japan Coal Development Com- at Rundle, but other groups things will be in the future.

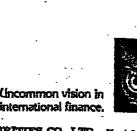
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# هكزامن الأحل

# Oil in exchange for steel finance

MEXICO

AYAKO DOI

AT THE end of late Prime Apister Masayoshi Ohira's visit Mexico last May, big heades ran across the front pages panese newspapers reportng Mr. Ohira's failure to aw a firm undertaking from n President José Lopez Pertillo to triple the export of leum to Japan. The lese Prime Minister landed at the Mexican capital with the rather naive optimism that the Mexicans would nod at the Japanese request in exchange for the yen credit which he was prepared to offer to finance Mexico's massive steel-manu-

facturing projects. of their two-day meetings with to find an alternative source to a joint communique which stated that while Mr. Ohira expressed his "desire and expectation" to get more oil, Sr. Portillo only promised his

"political decision and good will" in considering the matter. The issue was half-forgotten after Mr. Ohira's return home, buried beneath the news of the unprecedented combined elecment was obviously not in a

under such conditions. Mexico's proven oil and gas reserves were a little over 6bn barrels in 1976. Extensive exploration since then has 16,500-mile voyage from the increased the amount to 500bn Mexican Gulf port of Pajaritos today, according to Pemex, the around the Cape of Good Hope State-owned oil company. The and the Malacca Strait. country is now the sixth oil-

barreis, a level rivalled only by Sandi Arabia. Unlike Sandi rabia. Mexico is not a member of OPEC, which makes it even its deteriorating trade balance. President Lopez Portillo's

Government has pledged to limit the oil production to 2.5m barrels per day (b/d), with an allowance of 200,000 barrels upward, until his term expires in 1982. Only half of that in 1982. Only half of that amount will be exported in order to minimise inflation caused by a sudden influx of petro-dollars and more than half is said to have already

been committed to the U.S. Mexico's rich oil supply sudfor Japan when shipments from Iran were cut off early last year. Japan had depended for 17 per cent of its oil supply —about 500,000 barrels per The Japanese were stunned —about 500,000 barrels per when the two leaders came out day—on Iran, and was anxious secure its energy requirements.

Shipment

Last summer the Pemex director-general, Sr. Jorg Diez Serrano, agreed with visiting Japanese International Trade Mindster Mr. Masumi Esaki that the company would sell 75,000 to 100,000 barrels per stunning passage of a no-day of crude oil to Japan for confidence bill in the Diet, the the next 10 years. Shipment was to begin last January at a tion to the Upper and Lower level of 25,000 b/d and the Houses which followed, and, amount was gradually to in-most dramatic of all Mr. Ohira's crease to 100.000 barrels by the sudden death. The Government of this year. Owing to the lack of preparation, however, position to make new proposals Japan received no Mexican oil in the first quarter of 1980. The first shipload of 920,000 barrels, intended for April, arrived in Kagoshima on June 28 after the

Two more ships have since richest nation in the world, left Mexico, each carrying had in their minds. Mexican Association of Japan. "We want exporting to the U.S., Brazil, 750,000 barrels for May and Industry Development Minister to diversify our sources, not to Spain and France among others. June respectively. They are Jose Andres de Oteyza, on his depend too heavily on one Moreover, potential reserves expected to arrive in Japan in visit to Tokyo in April, country."

Strong case for wider

commercial links

ugust. To avoid confusion and competition among Japanese importers, 24 refiners and distributors, nine trading firms of OFFIC, which makes a even distributors, nine trading nrins more attractive as a supplier and three financial institutions of the precious resource. However, despite the temptation to use oil as a means to improve and industry's advice, a new company called Mexican Despite the Company called Mexican Company and Industry's advice, a new company called Mexican Comp Petroleum Import Company last autumn. The new company will act as an importer of all crude

oil arriving from Mexico, as well

as a distributor among the 24

shareholding oil companies. When the Japanese recovered from their initial shock at Mexico's reluctance to sell more oil, there came a new interpretation of the Ohira-Portillo communique—that the Mexicans in fact were saying a conditional "yes." The condition obviously is Japan's larger participation in Mexico's three steel projects; an expansion of the Sicartsa steel works from the annual capacity of 1.350.000 tons to 2,800,000 tons; the construction of a casting and forging plant with an annual output of 50,000 tons; and another rge-diameter steel pipe mill

with 150,000-ton annual capacity. Negotiations for these projects began more than two years ago, before the question of oil exports came up, between the Mexican government's steel corporation and three Japanese steel manufacturers. Nippon Steel offered to provide technical assistance for the Sicartsa works. Kobe Steel and Sumitomo Metals suggested joint ventures for the other two projects

As the world oil supply situation worsened last year, the projects came to be seen as a fitting bargaining tool for Mexico, which wanted financial assistance from the Tokyo Government as well as the private investments.

Although both sides were step? agreed in principle, a wide gap existed between the sums they

uggested Japanese credits o Y100bn (about \$455m), while Tokyo was talking about some thing in the vicinity of Y22bn (\$100m). The Japanese figure was later raised to Y40bn before Mr. Ohira's visit to Mexico, but that still was not enough for

After the political interval caused by the election and the oppointment of the new Prime Minister, the Government now is said to be considering boost ing of assistance from the Over seas Economic Co-operation other steel makers-Nippon Kokan and Kobe Steel-into joining the projects. According to the Japanese Press, the matter has now become a national project.'

Predicted

"The fact that there are many speculations on the amount of Japanese financial aids." said Mexican Ambassador Francisco Alejo Lopez earlier this month in Tokyo, "shows a keen interest in the matter by the Japanese Government and industry." He predicted that an agreement would be reached within the next couple of months both on the steel projects and the boosting of oil exports. Japanese observers optimistically predict that Mexico will eventually come up with a positive answer to accommodate the Japanese

considerably be speeded up next year when the port of Salina Cruz on the Pacific coast is expected to begin operations Mexico then will be a fast and stable supplier of oil to Japan. If Tokyo succeeds in getting 300,000 b/d from the oil-rich country-that is only 6 per cent of the national consumptionwill it want more as the nex

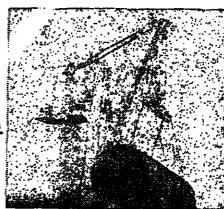
"That is not our intention," says an official at the Petroleum

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With the growing trend loward export of complete industrial plants, there is much demand for heavy lifters to transport huge plant equipment to oil-producing and developing

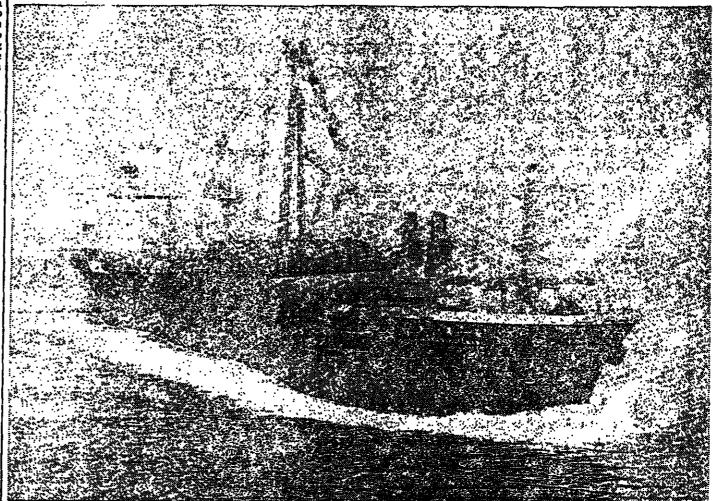
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# SAUDI ARABIA

Ras Tanura-Saudi Arabia's main oil terminal. Tankers dock

RICHARD HANSON

APAN HAS recognised its conomic and diplomatic ties with the Arab world before the 1973 oil crisis. This was particularly true in the case of Saudi Arabia, which after the oil crisis replaced Iran as Japan's single largest supplier of crude oil. Unfortunately, the process of building up the relationship has proved agonis-

Hilly

The history of Japan's ties with Saudi Arabia can be divided into two phases. Initially, when Japan began to import crude oil again in the early 1950s it was completely dependent on the Western majors for handling oil supplies from the Middle East. This simple cashon the barrel attitude was reflected in an almost total lack of official interest in formulating a coherent diplomatic policy towards the Arab world. Indeed strong opposition arose within the Japanese Government in the mid-1950s when a small group of influen-tial Japanese businessmen proposed that a Japanese company posed that a Japanese company should try to win oil exploration concessions in Saudi Arabia in competition with the West. They were successful, but even today the company, Arabian Oil (whose chairman is

profiled elsewhere in this sur-

vey), is a relatively tiny source of oil for Japan. Other Japanese

efforts to produce oil in the

Middle East have been even

Scrambling

less significant.

This first phase ended abruptly in 1973 when tensions in the Middle East (and the emergence of OPEC) left Japan scrambling for assurances of oil supplies. There was a definite this form green handed policies. shift from even-handed policies towards Israel and the Arabs in favour of the oil producers, and envoys from Tokyo hastily tried to woo the Saudis with promises of economic co-opera-

The first talks on closer relationships with Saudi Arabia had languished since a 1971 official visit to Japan by King Faisal. When oil prices soared in December, 1973, though, the then Prime Minister, Mr. Miki, sent a high-level representative to propose a co-operative agree-It required another 15 months before it was actually

at a platform out at sea such events since the 1975 signing). The two sides also agreed that large development projects would be in the form of joint ventures, as was the case in Iran. The results of the accord so far have been disappointing to both sides. In 1976 Japan proposed to co-operate on

projects — a petro-complex and an oxidised steel project. The latter was quickly scaled down in planned size from 3.5m tonnes a year to 1.5m by the Japanese side (which included

Nippon Steel, four trading comanies and co-operation from a U.S. group). Interest was diminished by a turndown in the world steel market and higher construction costs. Saudi Arabia finally turned to a West company for

would be extremely difficult, however, for the Japanese to neglect its commitment to building the \$2bn "showpiece" petrochemical complex that Saudi Arabia wants as a joint venture with Petromin, its State oil company. The heart of the proposal is a 450,000 tonnes annual capacity ethylene plant in Jubail. The Mitsubishi group will represent the Japanese side, and the Japanese Government already promised it will participate, giving it the look of a "national" project.

Mitsubishi began having second thoughts on the project because of higher costs and the ministerial level meetings lack of assurance of a market 16 per cent to second but the condition only two for a large new source of petro-imports from Saudi Arabia there really is no choice. meetings lack of assurance of a market 18 per cent to \$3.8bn but oil

chemical products. To further jumped 43.4 per cent to \$12bn. complicate the situation, "Pro-Saudi" people in the Mitsubishi has been horrified by the events in nearby Iran which have jeopardised the future of the multi-billion dollar Bandar Khomeini petrochemical project being built by Japan's second largest trading company group, Mitsui and Company.
With seemingly no way out,

the two sides in April this year launched a feasibility study, the results of which should be known next year.

Negligible Other efforts on the official level appear to have produced negligible results. In a typical recent year, under official auspices, only 115 Japanese advisers travelled to Saudi Arabia while 103 Saudis came to Japan for technical

At the private level Japan has fared much better in selling goods and equipment to Saudi Arabia. In 1978 Japan ranked second after the U.S. and well shead of West Germany and the UK. Japanese heavy equipment makers have been particularly strong in exporting desalination, cement and other plants, while the motor industry and other lighter manufacturers have moved in strongly to meet Saudi demand. The inceptive to cut the large trade deficit Japan runs as a

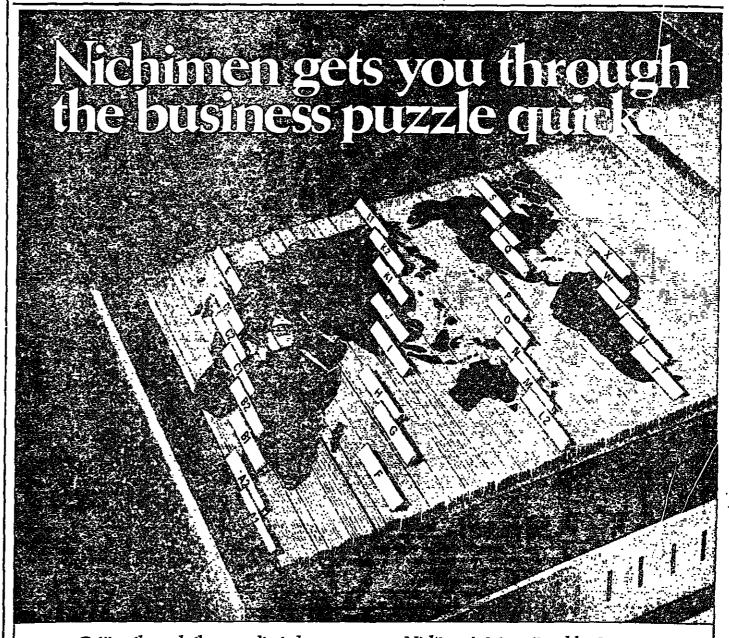
result of soaring oil prices is strong. Last year Japanese exports to Saudi increased by

business community are warning seriously, however, that Japan must rethink its entire approach to doing business with the Saudis, both at the private and governmental level. The purely commercial approach to sales taken by most businessmen could eventually produce an anti-Japanese backlash, they

The main criticism of the Government's approach so far is that officials have taken the passive position of asking the Saudis what they need and then promising to provide it, this has not worked so far, according to one observer with long-standing ties to the Saudi Government, because they Saudis themselves need much more basic assistance in deciding just what is required at their present stage development.

The gap in understanding will not help Japan benefit from the huge amount of money to be spent under the third Saudi fiveyear development plan starting this year.

Finally, the Japanese will have to learn to live with the uncertainties of Middle East politics and religion. The fear among all Japanese involved in Saudi Arabian affairs is that the country could prove as unstable politically as Iran. This is a good part of the reason why Japanese businessmen have been wary of getting too deeply involved in large, long-term projects. But so long as Japan is dependent on Saudi Arabia for about 30 per cent of its oil,



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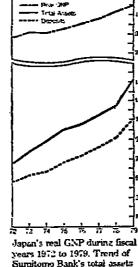
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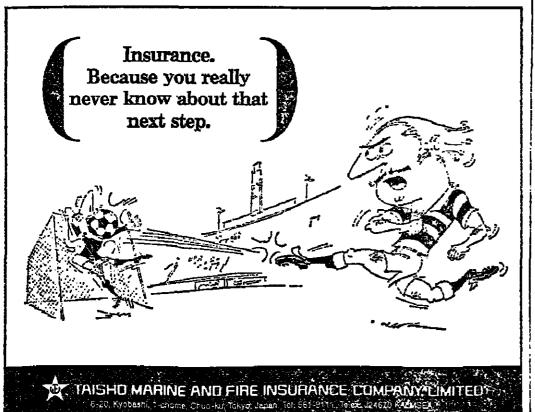
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# Peking supplies below hopes

### CHINA

CHARLES SMITH

DIVERSIFICATION OF Japan's energy sources has been a prime object of Government policy ever since the first oil crisis exposed the danger of Japan's neavy dependence on oil from the Gulf. Supply from China is one of the principal elements of this diversification policy, but one which, increasingly, has come to disappoint early expect-

Currently Japan draws about per cent of its oil and about per cent of its coal China. Dependence on Chinese oil may rise to 5 per cent before the end of the 1980s, but Japanese officials stress that a bigher figure is neither likely, nor even desirable, so far as Japan is concerned. The vision of a massive economic partnership based on China's natural resources and Japan's industrial might would thus seem to have

been exaggerated. One reason why the vision has not come true is that China has failed to increase its oil production as rapidly as was expected some years ago. Output from the

duce recorded growth of around 7 per cent had doubts about its ability to which China is embarking with and a real growth which may have only been marginally less. China's ability to produce sur-plus oil for export would thus the agreement. China's anxiety pect it to continue to decline. There is a real question whether China will remain an oil exporter," said one Foreign Ministry official.

### Honoured

Despite what would appear to be a dwindling availability China has so far honoured its obligations under the eight-year private level trade agreement signed with Japan in February, 1978. This called for an increase in shipments from 7m tonnes in 1978 to 7.6m tonnes last year China has promised to ship the contracted tonnage this year and may well succeed in stepping up shipments further to the 9.5m tonnes laid down for 1981. look is doubtful. The Chinese premier, Mr. Hua Guo Teng, on visit to Tokyo in May, hinted that there might be difficulty in reaching the 15m tonnes set for

China's warning that it may not be able to fulfil its oil supply major onshore fields grew by 2 obligations in 1982 represents per cent in 1979 to 196.15m an ironic shift from the situa-

a nominal At that time it was Japan that the only oil development one on absorb Chinese oil and China foreign assistance. Western oil that "insisted" on the insertion companies have signed agreeseemed to have declined last to maximise its oil sales to Japan year and Japanese officials ex- arose from its desire to import quantities, of Japanese Iarge plant and equipment and to offset the cost of these by oil exports.

The question of whether

China can or cannot fulfil its 1982 export obligations will depend partly on the trend of production at existing onshore fields (where water is already being injected to produce a secondary oil flow) and partly on China's domestic demand. Beyond 1982 the important question will be whether and on what scale China can develop new oilfields. Japan will be taking an active part in these developments through its developments through its partnership in a joint venture in the south-western portion of the Bay of Bohai.

The venture has taken time to get off the ground but an operat-ing company has been established and exploratory drilling should get under way this summer. The project is being financed in part by drawings from a low interest rate Y420bn loan extended last year by Japan's Export Import Bank to

ments to conduct seismic surveys in the Huan Hau and

South China Seas areas, and has (very recently) that it may invite Western assistance in onshore drilling. Japan will not, however, seek a major role in any projects other than Bohaialthough it may act as subcontractor in some other ventures.

### Ambitious .

Development of coal imports from China is regarded by Japanese Government officials as being as important a step as with oil—if not more so although here too early expectations are now regarded as over-ambitious. Imports rose from 772,000 tonnes in 1978 to 1.407m tonnes last year (both steam and coking). They should hit 3.5m to 3.7m tognes in 1982 and were at one time experted to reach 10m tonnes by 1985; this last figure is now regarded

as a "very ambitious." What is certain is that Japan will assist China in the develop-ment of three high-grade coalfields: Yanzhou Baodian (with an estimated output of 3m tonnes of steam coal per year), Yanzhou Jiangzbuang tonnes of steam coal)

tonnes (from 104.05m) whereas tion during negotiations on development.

Gujiao Xigu (3m tonnes of the Chinese Gross National Protine two-year trade agreement.

The Bohai Bay project is not coking coal). These developments are compared to the two-year trade agreement. same Y420bn line of credit as the Bohai Bay oil project, with the coal projects taking slightly

less than half the total. China is officially responsible for providing the infrastructure needed to back up the new coalmining ventures but will be receiving some Japanese help in this area also. This will come in the form of a low interest rate Y50bn loan to be extended

ment agency specialising in seft loans to developing countries). China initially rejected all Japanese offers of "aid-type" financing but began to show signs of shifting its position when the late Prime Minister Masayoshi Ohira visited Peking in December last year. In April a memorandum of understanding was signed on the OECF loan, with China providing a list of projects to be financed by it. At least two of these (a port nad a railway) are thought to be related to the Japanese-financed coal-mining

by the Overseas Economic

Co-operation Fund (a Govern-

ventures. The scope for developing Chinese coal resources for the Japanese market could be enhanced in future by the use of coal liquefaction. If this happens coal, rather than oil, could eventually emerge as the main resource underpinning Japan's trade with China.

# Abundance on northern doorstep

The additional credit exten-

### SIBERIA

MARK MEREDITH

WITHIN EASY reach of Japan are coal fields, potentially vast quantities of natural gas, and maybe oil. But because these are in Siberia, Japanese government officials count them out when calculating their future energy needs.

"We do not have an energy prientation towards the Soviet Union," was the way one senior Japanese diplomat put it. The production of coal and natural ges in south Yakutia or the exploration for oil off Sakhalin are all in various stages of negotiation or The capital investment is there, the indus- into full production in 1983. trial interest in Japan is there but so are the political worries. agreed for the construction of If the Soviets can confirm esti- Pacific coast around Sakhalin the development.

Japan's desire to help out a coal grading plant. with China's modernisation programme and the uncertain state of East-West relations has led to a considerable amount of foot-shuffling on both sides in expanding the contacts between these two obviously comple-

mentary economic areas. The most tangible of the energy-related projects is the development of the huge coal mountain in south Yakutia with estimated at 450m. reserves

The town of Neryungri has grown up around the excavation nd a sour of the main Soviet BAM railway line was constructed to carry equipment to and coal from the site.

Under an agreement signed in 1974 the Soviet received a \$450m credit from Japan to buy mining equipment. Island to the north of Japan Japanese were to receive 100m tonnes of coking coal over 20 years from 1979 - most of it from Neryungri when it comes Last year a further \$40m was

sion followed a session of the Japan-Soviet Joint Economic Commission which met in Moscow to give a bit more momento development projects. But at Neryungri, the site of the Yakutia project, the huge diggers soon unearthed problem. When the soil had been pulled away a heavy layer of steaming coal was found on top of the coking coal.

### Minimal

Buyers had first to be found for the steaming coal and purchasers were not queueing at the door. Japan's demand for steaming coal is still quite small and its stockpiling facilities minimal.

In Yakutia as well lie potencould dwarf all the other energy development. Both Japan and the U.S. have taken an interest to the Soviet Pacific coast. and in vested \$25m each in the Soviet exploration of the area

of gas reserves then the project could go into the development stage. According to the Japanese side the Soviet Union has confirmed nearly 85 per

Japan and the U.S. could each eventually import about 10bn cubic metres of gas in the form of figuid natural gas (LNG) if the development bears fruit. This would be enough to meet Japan's projected LNG require-ments in 1985 according to industrial estimates.

The extent and the cost of the infrastructure present the real problems Japan will not go ahead with the development without the U.S. or another third party and U.S. participation would be so costly and politically sensitive it would require congressional approval. tial natural gas resources which Japan and the Soviet Union have also differed on methods of transporting the gas

the ice clears. As

mates of 1,000bn cubic metres island, two Japanese oil drilling plants are towed from their bases Japanese island of Hokkaido to resume drilling off the north east coast of Sakhalin.

cent of the reserves so far. Eleven wells have so far been sunk into the 200-metre deep shelf and four have so far struck deposits of oil. The latest strike has been in the so-called Shayvo structure. A three-phase development programme is designed to develop the project velopment if it proves commercially viable

over the next five years. Political snags arose here too as U.S. advisers or equipment have been used on the rigs and there were fears that the American ban on high technology exports to the Soviet Union

would cripple the operation. The project is backed by the Sakhalin Development Company which was set up in 1974 by a group of private concerns with a combined capital of Y18bn. The Japanese Exim bank has

# No shortage of time to play

LEISURE

DEREK DAYIES

A VISITOR to Japan these days could well conclude that people have cured themselves of "workaholism" and turned into rollerskaters spinning about the parks, tennis players practising under highways and baseball pitchers on almost every street corner. Sports apart, the cities are barsting with enough bars. coffee shops, pinball parlours, came centres, cabarets, Turkish baths, restaurants and discotheques to keep the Japanese at

play 24 hours a day. What then happened to the energy crisis? Haven't those hefty price increases sent the oil-vulnerable Japanese scurrying back into their factories to toil even harder to keep up the rate of growth? Apparently not. Indeed, some sectors of the leisure business are benefiting from the higher oil prices. Another reason is that the Japanese have more time on their hands. In 1970 the average employed person

worked 255 days a year. By 1975 his stint was down to 236 days With longer holidays and the five-day week gaining acceptance, he is only expected to he at work for 224 days this By 1985 it is estimated that the Japanese working year

will be an average of 211 days. At the same time, the Japanese are spending more money on leisure. Total spending on all leisure pursuits in 1979 (nearly Y30,000hn) was seven times greater than in 1965 (just over Y4.000bm).

But while leisure time and spending are increasing, patterns of leisure activities are changing. "After the first oil shock in 1973 the Japanese way of thinking about leisure began to change," says Mr. Kenzo Yamada of the Japan Leisure

With this trend, night-life entertainment declined briefly and there was a boom in all soms of sports as well as hobbies id do-it-yourself activities. These trends sparked off by the first oil crisis have con- life."

tinued after the second. Sports continue to be a high growth area in Japan, with increasing enthusiasm among Japanese youth for tennis, diving, swimming, jogging, gymnastics and other individual sporting acti-

In the sixties and early seventies concentrated package tours were lined up back-to-back by travel agencies but now the Japanese are beginning to ena nation of leisure maniacs. Al- joy less group-orientated travel most anywhere you look there —setting up trips themselves are joggers in sleek sportswear, and finding their own lodgings, often near good facilities.

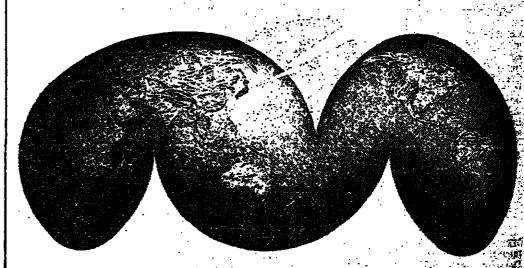
Increased transportation costs have inevitably had a major effect on travel. The Japan Automobile Federation says there is a trend towards shortdistance journeys and day-trips while long weekend car trips are becoming less popular. Similarly, the Japan Travel Bureau reports that long high-cost trips within Japan are declining. And during this year's national spring holiday, known as "Golden Week." domestic airlines reported steep reductions bookings.

At the same time the number Japanese travelling abroad, last year, 80 per cent of them tourists, levelled off in the early part of this year because of higher fares, a weaker yen and increased prices abroad.

Other factors, too, affect the changing patterns of Japanese much influenced by fashions, fads and technical innovations as anybody else. Computer-hased electronic games, tremendously popular among young people, have even created their own social problems with school children turning to petty theft to satify their enthusiasm. Discotheques, too, have become one of the fastest growing leisure outlets in recent months —increasingly frequented by. middle-aged businessmen.

In the boom years, when the Japanese economy was hurtling along, the Japanese were sweating blood to keep up the pace. Now that pace has relaxed a little the people, particularly the younger Japanese, are also relaxing more. The goal of catching up with the industrial is being replaced by another 20al known as ' هكذامن الأجل

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The remaining four pages of the survey carry profiles by Charles Smith and Richard Hanson on twelve leading personalities drawn from a cross-section of Japanese life -presenting in particular their views on the energy crisis.

# Kiyoaki Kikuchi

OF ANSWER to the question of whether Japan will have to change its foreign policy berause of the energy Mr. Kiyoaki Kikuchi, Foreign Ministry's top official charge of economic affairs,

Do until 1973 Japan even handed" in its policy marks Israel and the Arab world Since 1973, says Kikuchi. we had to give due weight to see countries." What that seems is giving explicit support United Nations resolutions a the Palestine problem and (by stages) a degree of recognition to the PLO, which now has

an office in Tokyo.

Kikuchi says that until the recent EEC Venice summit.

Japan was well ahead of Europe in its position on the Palestine issue. But the fact wasn't recognised "because we are no good at public relations." On the other hand, Europeans, cially President Giscard d'Estaing, are adept at PR, he

Kikuchi says that Japan's resent foreign policy should definitely not be characterised as "resource diplomacy," an expression which was dreamed up in 1974 by the Ministry of International Trade and Industry and which attracted a lot of had publicity. "I felt this with my own skin at the OECD Development Assistance Committee meeting in 1974 when the European nations accused us of distorting our aid policy in favour of the oil producers."

The accusations were partly fair, but only partly, Kikuchi believes. What Japan actually did after the first oil crisis was to give additional aid to the



Mr. Kiyoaki Kikuchi

countries, rather than divert aid away from others. Moreover it gave, or tried to give, aid to both non-oil producing and oil producing Arab states. Kikuchi sees nothing wrong in this aspect of Japan's post-1973 energy diplomacy but he does dislike the term resource diplomacy which carried all the wrong implications. BITI has been told not to use it any more," he says flatly.

As far as the second oil crisis concerned, Kikuchi (who spent several years running Japan's aid policy) says he expects the impact on aid can only be negative. "We would like to keep up the level of our aid programme but it could be

higher oil prices reduce the availability of funds but Japan

We tried giving our surplus rice (even though rice costs in Japan are five times the world market level) but the U.S. accused us of undermining their traditional markets. That may leave helping non-oil producing countries to develop energy resources as our best aid-giving option. We are also telling the Communist industrial countries that they have to do their bit—at least that may put them on the defensive."

Seeking a "stake" in overseas oil production as a means of ensuring Japan's energy sup-plies is an "outdated notion" and "not likely to work." What will probably happen, according to Kikuchi, is the reverse: it will become more and more difficult to resist the damands of oil producers for a stake in the "downstream" oil indus-tries of Japan—even down to the level of petrol stations.

This development is seen by Kikuchi as "ominous but inevitable." He adds, however, that, where coal is concerned. Japan could get heavily involved in overseas production. "This will not be because we want to be involved, but because coun tries like Canada, the U.S. and Australia are inviting us in. Rightly or wrongly they think Japan has the money to make the massive infrastructure investments needed for coal development."

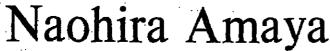
Kikuchi is optimistic about the development of Japan's world role in the aftermath of the second energy crisis. Countries like the Japanese press is masochistic U.S. can switch from giving and has always exaggerated the money to giving food when extent to which we were the

odd man out at summit con-ferences," he says. Even so, the Venice summit may have been a turning point. As "stand in" for Foreign Minister Saburo Okita (who was himself standing in for the de-ceased Prime Minister Ohira) Kikuchi attended no fewer than four highly informal sessions of the foreign ministers of the seven during the two days in to my knowledge that a genuine trilateral get-together o foreign ministers from the U.S. Europe and Japan has taken place and I hope it continues,

Insight

Kikuchi's job as one of the two deputy ministers at the gives him special responsibility for economic affairs but he does not see himself as a "narrow" economic specialist Seven years in Washington dealing with such thorny issues as textile quotas and dumping charges gave him an insight into the interplay of and trade assues in the U.S. A secretar y to Mr. Masayoshi Ohira when Mr. Ohira was allocated the foreign ministry provided insight into the work ing of Japan's domestic politics.

Kikuchi was thus the natural choice for Ohira's personal representative during the preparations for the Venice summit. "It was a tragedy that the Prime Minister died before he could go to Venice I took his photo with me and tried to do things the way he would have done them."



NOONE KNOWS what lies (following Japan's Mead for Japan so far as energy election in which Mapplies are concerned, but Mr. Democrats scored a landslide Wachiro Amaya, Vice-Minister for International Affairs at the Ministry of International Trade and industry (MITI), thinks the might just conceivably be Surprises are likely to be un-tackled pleasant rather than the reverse. My personal guess is that we Japan should be doing outside its own frontiers are as forthgly problems in the next decade right as his conjugate.

... because of this I cannot homestly say that we have the Ministry is in charge of trade Mr. Amaya says Japan needs opinion on foreign o spend much more on develop- issues, but it seems clear to ing alternative energy supplies, me that Japan and other indusand particularly in furthering trial countries should give more consideration to the growth of nuclear power and coal than has been done up to "We should use the repeople." Mr. Amaya also thinks from petrol tax to de that the Middle East expects venue from petrol tax to develop alternative energy, not to Japan to bring its influence to build roads, although ten years bear in effecting a change in ago it was right to use it for U.S. policy on the Palestine , issue. Whether Japan actually has such influence is doubtful. he admits, but that does not

oll supplies.

that "those countries are power-

want." If the oil producers per-

sue programes of industrialisa-

Delnded

Mr. Amaya thinks there is an important, job to be done in convincing Japanese public opinion of the gravity of energy problems and that one reason why the job has not been done is that economic success has deluded the country into a false sense of security.

Mr. Amaya thinks "a lot more" than the Y7,000bn (about £14bn) which a Govern ment committée said two years ago should be spent on developing new energy resources over the next decade actually needs to be spent (the figure relates only to government spending and lovestment). "We may have in increase texes, but the subject of lax has been taboo unit recently." With a greatly cently." With a greatly ruling

War Veteran's Association As UTI Minister two years ago

n the first Cabinet of the late

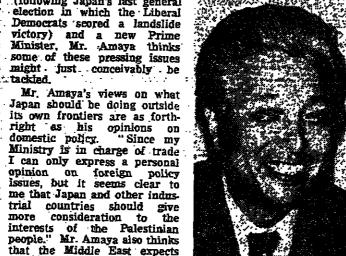
dr. Ohira, he claims to have aunched Japan's first serious

nergy diplomacy effort in the diddle East. Mr. Esaki

Ciddle East. Mr. Esaki elieves strongly that Japan's

uccess of that effort.

edurity rests squarely on the



Mr. Naohira Amaya

Iranian petrochemical complex) have no option but to press ahead with their projects even alter the need for action to avert probable future up-heavals in the Middle East if to do so costs them money. which could seriously endanger One reason why they must persist is that "if the oil producers decide to give up their indus-On the question of economic trialisation programmes they co-operation with eil-producing might also stop producing oil. Fortunately, Mr. Amaya notes, countries Mr. Amaya's view is the major oil-producing counful and we must do what they tries still appear to be dedicated to industrial develop-ment. "It is encouraging to see tion based on the import of that the revolutionary governmajor plants (steel, petro-chemicals, etc.) Japan "must" supply such plant, Mr. Amaya ment in Iran is still extremely anxious to complete the Bandar Khomeini petrochemical comsays. But just supplying plant

is not the end of the matter. One of the problems Japan There is also the question of faces in doing business with oil whether industrialisation by oilproducing countries, Mr. Amaya producing countries can be says, is that companies which are in a position to supply the Companies such as Mitsui hardware the oil exporters want (sponsor of the ill-starred \$3.3bn may not necessarily have any

interest in oil. The steel in dustry, for example, bas no special incentive to build plants overseas so that the refiners can increase their oil purchases. A wry round this Mr. Amaya peculates, might be to create " giant company, on the model of your East India Company, which could absorb everything

into its stomach." The essential element would be the risk-bearing functionin other words the same company would benefit from the increase in oil imports while bear ing the risks on involvement in heavy industrial ventures. Mr. Amaya says, however, that there is absolutely no way in which such an entity or entities could be created today. It would take a major crists to bring about such an important change in the structure of Japanese business.

### Headlong

If Japan runs headiong into another oil crisis the result, Mr. Amaya forsees, would be a repetition in a greatly intensified form of the "structural recession" (i.e., recession in energy-consuming industries) which followed the 1973 oil crisis. Industries such as aluminium and petrochemicals and perhaps even steel could face a grim future in such a situation. To some extent several those industries will need to be phased out in any case.

What Japan needs instead. Mr. Amaya says, are technologyintensive industries that use less energy and provide more added value. Bringing such industries into existence will not be easy but MITI, Mr. Amaya implies, is working on it.

# Masumi Esaki



Mr. Masumi Esaki

"nuclear umbrella" to Japan's. He blames, however, what he calls the U.S. "oil umbrella" for much of Japan's present vulnerability to oil

Mr. Easki was in charge of Crises. he Defence Agency during the His rather extreme view is that post-war American policy universe times which followed as "railroading" of the U.S. was aimed at keeping Japan apan Security Pact through under the thumb of the big confirmed a Mexican willing he Diet in 1960, as a result of American oil companies, which ness to export 300,000 b/d in which he thoroughly appreciates until recently supplied the 1982. He attributes his success he importance of the U.S. bulk of its oil. The domestic (with the modesty expected of

panies after Iranian oil was cut off.

The oil umbrella was torn shreds by the sandstorm which swept the Middle East in 1973," says Mr. Esaki. "We had an energy policy but no Arab diplomatic policy," he

Identified

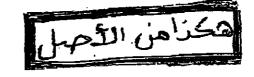
Mr. Esaki has since become so clearly identified with Japan's economic self-interest in procuring oil that when the Afghanistan crisis prompted a political" trip round the Middle East in February the Prime Minister had to pass him over in favour of a former Foreign Minister. "I have oil on my face," he explains.

The efforts of the "Energy Ambassador" seem to be pay-ing off. His trip to Mexico earlier this year on the heels of Prime Minister Ohira resulted in a much firmer commitment from the Mexicans to raise shipments of crude oil. Mr. Ohira had been able to get a public promise of shipments of 100,000 barrels per day (b/d) by the end of 1982. Mr. Esaki confirmed a Mexican willing-

oil industry was hurt badly a politician) to a "clean heart" when the majors shut off in talking with others and a supplies to non-affiliated com- no-nonsense negotiating style no-nonsense negotiating style of "telling others just what Japan's situation (regarding oii) is."

> Mr. Esaki's hawkish stance on defence and energy (he is also a strong advocate of nuclear power) has become more and more popular in and out of the ruling party, and has gained more support fro mthe public at large than in past years. (His approach to detence, however, advocates more than just modernising weapon systems, and increasing the budget, he feels strongly that the Japanese people "in spirit" have not yet recognised how important the miltary are.

The military emphasis in Mr. Ssaki's career dates back to World War II when he served as a captain in the Japanese expeditionary force in China Before that his main goal in lute seems to have been writing novels. In fact he was the runner-up for Japan's most prestigious literary award, the Akutagawa-show in 1935, for what he describes as a "young romance" stor. His 14 terms as a legislator since the war have, however, left him no time to continue such "peaceful" pur-



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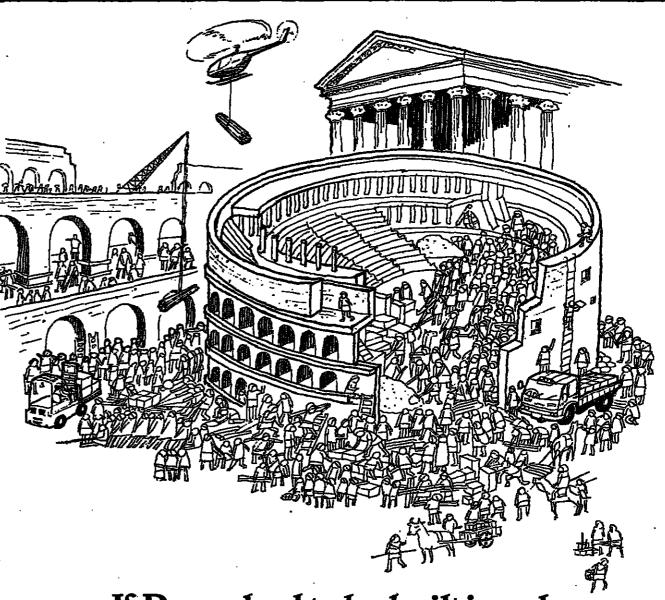
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# Masao Segawa

THE LAST time electricity developed its own enrichment rates went up in Japan—by a technology based on the centriwhopping 50 per cent at the beginning of April-both the electricity utilities and the Government officials concerned in fixing the amount of the in- need for more than 20 per cent crease became aware of a very important fact. Oil-fired thermal power stations now cost atmost twice as much to operate as nuclear power stations (Y20 per kWh compared with Y11) and are getting relatively more costly with each successive oil price increase

The cost differential between oil and nuclear power is one big reason why Japan must press ahead with its nuclear power programme, says Mr. Masao Segawa, the bespectacled former Minister of International Trade and Industry (MITI) official who runs the Power Reactor and Nuclear Fuel Corporation (PNC), Japan's equivalent of Britain's Atomic Energy Authority. Mr. Segawa adds that it would be a good thing if the Japanese public could be made to appreciate the benefits of cheap nuclear power by the introduction of special power rates for those living near nuclear power stations.

This, however, he acknow-ledges to be difficult. Japan's laws are framed to prohibit the giving of political "favours' to power consumers and the laws are jealously guarded by MITI's Public Utilities Bureau (of which Mr. Segawa himself is a former Director General).

While stressing the cost advantage of nuclear power Mr. Segawa admits that it will not always be as cheap as it is now. Japan is badly behind in the development of the "nuclear fuel cycle" (the process which begins with uranium mining and enrichment and ends with reprocessing and storage of spent fuels and wastes from light water reactors) and will have to spend money to catch

up.
"I have been telling the Government and the power companies for the past 10 years that it is not enough for us just to build light water reactors." says Mr. Segawa. He estimates that the necessary investments in completing the cycle will add 10-15 per cent to the cost of nuclear power generation in the near future, though even then it will still be much cheaper than oil.

The most urgently needed investments, says Mr. Segawa. are in the "downstream" end of needed. A strong argument in the nuclear fuel cycle—i.e. in favour of the ATR is that by the reprocessing and storage of consuming plutonium produce? wastes, rather than in enrich- from light water reactors it

fuge process, after finding that technologies were Western classified for military reasons. "However, we don't feel the self-sufficiency in enrichmentgiven world over-capacity in this area."

In reprocessing, where Japan started far behind the West, the current situation is that PNC operates a pilot plant based on French (St Gobain) technology, while plans are under way for a second commercial-scale plant to be operated by a private company. Japan will in the long run adopt a "multinational approach to the development of reprocessing (and fuel storage(, favouring projects which jointly managed or financed by a number of countries rather than the attainment or preservation of national self-suffi-

So far as reprocessing is concerned, however, the multi-national approach will have to wait "until we build our third plant or later." Co-operation in fuel storage could come earlier: For example we are now talking to the Americans about a proposal for joint storage in the Pacific Ocean: the so-called Pacific Storage Basin."

Mr Segawa says he is worried about the impact (in the short term) on multilateral co-operation that might follow from a tightening of the U.S. Nuclear Non-Proliferation Act of 1977. "Our position on nuclear co-operation at present is close to from that of Washington. But Europe is nine countries and we are one, so it is quite hard for us to disagree with the Ameri-

worrying about the nuclear fuel cycle he is planning the development of advanced reactors to take over from American-style light reactor as the next generation of Japanese nuclear here is on the importance of the heavy water Advanced Thermal Reactor (ATR) as a bridge" between the light water reactor and the fast breeder. The fast breeder will barely make its appearance in Japan before the end of the century as a commercial source of power, says Mr. Segawa, so there will be at least a decade in which the ATR will be Japan has successfully should cut down on the security



Mr. Masao Segawa

risks of accumulating plu-

PNC has a prototype ATR already in operation and claims to be pleased with the results it has been getting. The UK Steam Generated Hot Water Reactor (SGHWR) was moving roughly in parallel with the PNC project until it was abandoned in what Segawa obviously regards as faulty decision. Mr. Segawa says his organi-

sation has learned a lot from Britain( and in particular from British Nuclear Fuels, the company which processes half the spent fuels from Japan's light water reactors under a contract which continues up to 1990). He stresses however. that there are areas where he would like to see a freer flow of ideas between countries involved in nuclear power. " Until ten years ago countries which had developed nuclear weapons kept almost all their know-how on the peaceful applications of nuclear power to themselves even though it was not officially

Mr. Segawa obviously be lieves that the judicious pooling of knowledge can help make nuclear power a safer energy source in future rather than the reverse. He cites one Japanese innovation which could already be taken up by other countries—a mixed oxide fuel for ATRs which is "hi-jack proof" because it can be produced without the emer-

gence of pure plutonium.
There could be other areas where the West will find itself benefiting from Japanese innovations and experience, particularly if PNC is as successful as it hopes with its ATR programme. Nuclear development, however, is a "long haul" and, for the time being, Mr. Segawa puts most of his ing up to be done.

# Gaishi Hiraiwa

Mr. Gaishi Hiraiwa might be dence on oil, partly because it plementary as well.

Mr. Hiraiwa has no hesitation saw the oil crisis coming earlier in several that leaves that the same saw that the saw that the same saw that the same saw that the same saw that the same saw that the same saw that the same saw that the same saw the saw the same saw the saw the same saw the same saw the same saw the saw of the world's largest privately it was exceptionally sensitive to power industry operates much gentleman rather than the boss Tokyo Electric Power. A Tokyo University law graduate who has spent his working life with Tokyo Electric and its predecessor companies, Mr. Hiraiwa was awarded the CBE in the 1980 New Year Honours. He won the award for services 10 UK-Japanese trade relationsmeaning specifically his company's great importance as a customer for Shell and BP (liquid natural gas), Rio Tinto Zinc (uranium) and British Nuclear Fuels (reprocessing of spent nuclear fuels).

As president of Tokyo Electric Mr. Hiraiwa is the spokesman for an industry which accounts for about a tenth of the private capital investment in Japan (some Y3,000bn, or £6bn, a year) and whose pric-ing policies can exercise a profound impact on the economy as well as on the daily life of people. Mr. Hiraiwa's first concern at the moment is to convince people that the increase of over 40 per cent in electricity charges enforced this spring was not unreasonable. Given the extremely difficult circumstances in which the power companies have been operating.

### Measures

Most of Japan's nine private electricity supply companies still depend on oil for nearly per cent of their fuel requirements, Mr. Hiraiwa points out, although Tokyo Electric has managed to get the ratio down to just over 40 per cent. The doubling of oil prices last year thus was bound to force an increase in chargesespecially as the companies are simultaneously having to spend heavily on anti-pollution measures. The cost of providing "clean" power instead of "dirty" in overcrowded Japan is estimated at some Y600bn (£1.2bn) a year for the nine power generators—a sum which would dwarf the total amount of capital investment in several

other major Japanese industries. Considering all these burdens it is quite creditable, says Mr. Hiraiwa, that electricity charges have risen by a factor of 134 over the past 45 years or so. The price of a haircut in Tokyo, by contrast, is 5,000 what it was before the times

Mr. Hiraiwa says that Tokyo Electric is substantially ahead C.S. of the electricity industry as a complementary, so their power supply systems should be com-

than most and partly because in saying that Japan's nuclear owned power supply company, pollution problems. The company drafted a long-term the U.S. nuclear generating energy diversification pro- industry. "I'm convinced the energy diversification programme in 1971 (the year the Club of Rome report was published) and passed its peak year of oil dependency in 1973 (with 72 per cent of generating

capacity based on oil). The main directions of diver-sification have been towards liquid natural gas (lng), which was selected for its cleanness rather than its cheapness and nuclear power, where Tokyo Electric was able to get a valuable head start in finding sites for power stations. Tokyo Electric today gets 15.3 per



Mr. Gaishi Hiraiwa

reactors, against a national average of 12.6 per cent, but none of this comes from power stations within the Tokyo area. Fukushima Prefecture in the North-Eastern part of the main island of Honshu plays host to the main Tokyo Electric nuclear power generating complex, although not itself consuming any nuclear power.

Mr. Hiraiwa says that his com-pany will continue building up nuclear generating capacity during the 1980s and will stick to its policy of locating power stations outside its Tokyo franchise area. Because of this policy he sees little logic in a proposal being mooted elsewhere to offer cheap power to people living near nuclear power stations. His view is that the regional economies of major urban areas such as Tokyo and rural areas like Fukushima are

more smoothly and safely than situation is better here as regards the safety of the equipment itself, the quality and

qualifications of our operating staff, and the effectiveness of our monitoring systems." Because of this nuclear power will remain a safe and economic source of energy whatever happens elsewhere, Mr. Hiraiwa

about coal (with LNG and nuclear power the third major prong of Japan's energy diversification policy) but admits that its problems have to be tackled. "We are beginners with coal but we can't ignore the fact that world coal reserve are at comfortable levels, so that it is bound to be used sooner or is to find ways of handling the pollution problems involved with really massive coal fired stations of the kind that we are likely to be building in future.

### Handling

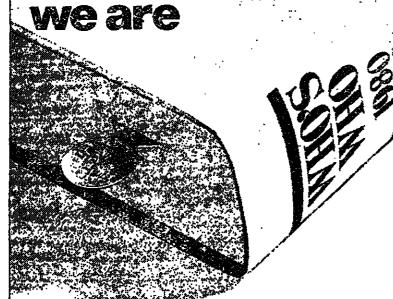
"After that comes the question of infrastructure, including the building of rail-ways and ports in the producing countries. Last but not le there is the problem of handling the ash from the used fuel. The experience we had in the past ing domestic coal will be no use to us because the new genera-

tion of coal powered stations
will be tremendously big.

Mr. Hiralwa says he looks
forward to a day when Tokyo
Electric will have substantially completed the task of diversifying away from oil and when investment in new generating capacity can be financed out of revenue. Funding the Y1,000bn a year which the company needs for its current investment programme is a major head-ache and involves extensive resort to the bond market as well as substantial bank borrowing. Another prospect to which he looks forward is the day when industrial power consumption in Japan can be brought into balance with domestic consumption present it is much bigger).

Mr. Hiraiwa has seen 40 years in the power supply industry and is not a man to be unnerved by the stresses through which his industry is now passing; neither does he underestimate the difficulties.

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# Toyoaki Ikuta

JAPAN FACES a trade-off between economic growth and dependence on imported energy and should decide which it reached. wants, according to Mr. Toyoaki Ikuta, president of the highly respected Institute of Energy Economics. Growth of 5 per cent or more a year would be a "happy level," according to Mr. Ikuta, but would mean that the nation's already perilously high level of dependence on imported energy would become higher still. Growth of 4 per cent or less would be "safer" in energy terms but would force some uncomfortable changes on a country which for years has been used to

rapid growth. The largest and most worrying consequence of less than per cent growth, according to Mr. Ikuta, would be decreasing job security for older people. He himself has just reached 55, the age at which most Japanese businessmen are expected to retire from their "main" job. He is a former MITI official now on his second career and therefore has "no worries" about job security. But he has plenty of friends

who do worry so the problem, as far as he is concerned, is very close to home. Mr. Ikuta's basic point about the "trade-off" between growth and energy supplies is that the Japanese public (and its poli-ticians) should recognise that it exists and make a choice. "I my friends in the Diet (Parliament) that they should discuss the actual energy probdiscuss the actual energy prob-lem—not the peripheral aspects | reason for the discrepancy Mr. | | Ikuta says. The official "foreof it that usually come up for east." he says, should really be debate. But I can get no satis-factory answer." Until and represents what is desirable unless the realities are faced, rather than what seems realishe implies, Japan will be drift- tically probable. Mr. Ikuta is ing as far as energy is con- on record with a request to cerned with the prospect of change tworse crises than those it has accordingly. already encountered.

### Ironically

not being very optimistic about the country were better at the chances of a sudden getting hold of oil but in fact improvement in Japan's energy (on the basis of statistics on situation. One — related to price and quantity of oil imports) Japan has, iromically, done almost too well already. "The content of the Government's failure to amount of energy consumed per adjust an oil policy drawn up unit of industrial production in the plentiful 80s to suit the Japan is already about the circumstances of the oil-starved lowest in the world and we are 70s. getting one of the best ratios of GNP growth to energy consump- availability of oil for granted tion - 1 to 0.6. That means and concentrated on protecting there is not much scope to its domestic refining industry improve on our conservation against "invasion" by foreigners performance and we must A decade later the same laws expect to remain near the point were still in place although we have already reached." An there had ceased to be much indicator of where Japan stands point in keeping foreign capital on energy conservation, says Mr. out of Japanese oil companies Venice Summit of industrially panies concerned could not get advanced nations set, as a target enough oil. Japan paid for its

So far as "alternative" (i.e.

non-oil) energy is concerned, Mr. Ikuta has another reason for being doubtful about Japan's prospects. "Our alternative energy programme has proceeded not so successfully up to now because of the huge problems we face in the field of environmental control. The problem, in essence is that Japan is territorially too small and that sites for nuclear or coal-fired power stations are extremely hard to find. extremely Additional restrictions brought in by zealous local governments (over and above national environmental guidelines) have made things even more difficult. For example, it is impossible today to build a coal-fired power station in the Tokyo or Osaka areas hecause local government regulations on emission do not permit it.

### Discrepancy

Mainly because of his fears about environmental problems. Mr. Ikuta disagrees with the official "estimates" for the production of alternative energy and cites his own much lower set of figures. An ironical point about this disagreement is that Mr. Ikuta happens to be chairman of the MTH Energy Demand and Supply Forecasting Committee which is responsible for producing the official figures. But there is a good

Mr. Ikuta says the short comings of Japan's alternative energy development programme Mr. Ikuta has two reasons for would matter marginally less it

In the 60s Japan took the is the fact that the if that meant that the com-

for the ratio of GNP growth to error last year when the interenergy consumption, the 0.6 national majors started canfigure that Japan has already celling their contracts to ship oil to "third parties" — i.e., Japanese companies in which the majors lacked a capital

> Mr. Ikuta's ability to show up the weak points of Japan's energy situation makes him appear a confirmed pessimist but he himself would question this assessment. The job that he and his staff try to do is to "say things that cannot be said by others (i.e., either the Government or the private sector) and in the process contribute to improving Japan's energy situation. Mr. Ikuta's institute, which was 14 years old last month, is now famous for doing this even if it has yet to force major changes in Government



Mr. Toyoaki Ikuta

I he unsecret

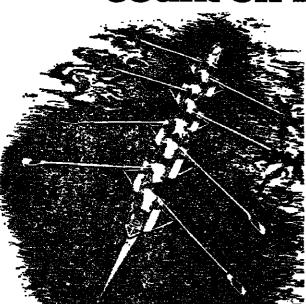


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### JAPAN XVII

# Toshikuni Yahiro

MR TOSHIKUNI YAHIRO is Japanese agreed to build the president of Missii and Com- complex solely to win the conpany, one of the top two general cession. Unfortunately, nine trading companies that handle dry wells and tens of billions of the bulk of Japan's imports and exports. He also happens to be the man who in 1972 took over responsibility for the project which has since become Mitsui's ofggest nightmare—the \$3.3bn . Khomeini petro-

hemical complex. Part of my mind is always gave up direct charge of the project last year when he became chief executive. The urbane, 65-year-old president would prefer to spend his time trying to regain Misui's former position as number one trading company from the present bolder, Misubishi Corporation Intellectually he would prob-ably be more comfortable conkemplating the intricacies of Kabiki, (the classic Japanese drama to which he has been devoted since his university days) than to those of an Islamic revolution.

Mr. Yahiro was nevertheless. a natural choice for the Iranian venture. Before becoming president of the Japanese partner in the project be had spent most of his career in the chemical and petrochemical divisions of Mitsui and its group of related companies. (His only Pareer setback came in another ifsding area, rubber, where he money speculating in

1950.) The Iranian project had been conceived in 1969, three years before Mr. Yahiro became inassociated gas being burned off at its oil fields. The Japanese wanted to win a concession to

According to Mr. Yahiro, the fields where production has another partner if the Japanese

complex solely to win the con-cession. Unfortunately, nine dry wells and tens of billions of yen later, the oil concession was declared worthless and the office closed down in 1979. Mitsui and a group of five original companies, however. were stuck with a buge project which had looked viable while the Shah was in power but became increasingly problematical under Ayotollah Khomeini.
Mr. Yahiro has had to steer

a very narrow course in keeping the project from collapsing altogether. Last autumn, when the cost of construction had to be revised upwards, he per-suaded the Japanese Government to take an equity share, while increasing his own company's exposure and bringing in additional partners from the private sector. The complex, now 85 per cent complete, has been "exempted" from the U.S.-inspired sanctions against Iran, but little or no work has actually been done on the project since March last year, and Mitsul is having problems getting operations restarted.

"We can't give up," Yabiro says. Completion, however, has been made all the more difficult by the latest conditions set by Iran, which include starting simultaneously on all 13 portions of the complex (instead of one key LPG plant as Mitsui had intended). Another potentially serious snag is the threatened

feedstock.

complex was supposed to use as



Mr. Toshikuni Yahiro

fallen to only 1m barrels per day (b/d) from the pre-revolu-tionary level of 6m. Iran wants to use naptha as a substitute feedstock but this (apart from being more costly) cannot serve as a raw material for the vitally important LPG plant. The latter was supposed to generate revenues to help in financing work on the rest of the complex, so delays here could be very serious.

Mitsui's only hope for Bandar Khomeini seems to be that the Iranians will be forced to increased oil production to about 3m b/d (which could take one or two years) to generate money. non-availability of associated for the country's badly damaged gas, the material which the economy. Mr. Yahiro believes that the project itself is too important for Iran to be abandoned wanted to win a concession to explore for oil in the south Associated gas is in short altogether (unough respirator for oil in the south supply because it is produced officials have prodded Japan as a by-product from the oil with threats of turning to as a by-product from the oil as another partner if the Japanese

are not more forthcoming). Mitsui's problems in Iran have tended to obscure the fact that the Japanese trading com-panies have otherwise profited handsomely from the second oil crisis. Mr. Yahiro can assure his shareholders that his company can absorb safely any pos-sible losses from Iran, which are mostly Government-guaranteed anyway. Last year Mitsui had a 1.065 per cent jump in net profit (consolidated) to \$114m and a 34.6 per cent increase in sales to \$43bn.

A large part of the increas was directly related to the fact that trading companies have become important procurers of oil since the Iran crisis dis-rupted supplies from the majors. They now handle about 40 per cent of oil im-ports. It is perhaps fair to say that the success of trading companies nowadays is depenthey are in the energ trade. Mr. Yahiro agrees.

"If the priceof oil stopped going up, Mitsui could become larger than Mitsubishi Corporation." Mr. Yahiro claims, attributing the rival company's lead to the fact that Mitsubishi has the largest share of the oil business.

Mr. Yahiro knows perhaps as well as anyone in Japan what involvement with the oilproducing world can mean. like a mistake now," he concedes," but it was also the cost of winning the right to explore for oil." Mr. Yahiro believes for oil." Mr. Yamro other that "to secure resources, Japan must do something re-ciprocal: We can no longer just pay cash and get oil." His advice to others contemplating involvement in huge petrochemical complexes in the Middle East is to "do it care-

R.H.

# Hiroshi Anzai

MR. HIROSHI ANZAI, the 78- between \*\*: year-old chairman of Tokyo Gas, power." Mr. Anzai says. He does the world's largest privately not think that nuclear energy owned city gas company, has rearned the title "Mr. Energy" in Japan. A burly ex-Judo time to come. Mr. Anzai claims, master and golf enthusiast, Mr. however, that the original Anzai helped lead the way in motivation for moving from the early 1950s for Japan's switch from coal to oil, the fuel for Japan's economic miracle. Auckily he also had the foresight to diversify in the late 1960s away from crude oil to liquefied natural gas (LNG). Nowadays, Tokyo Gas relies on LNG for 60 per cent of its energy needs. I studied night and day how

to introduce LNG," Mr. Anzai says. In fact Tokyo Gas learned its early LNG technology from Sir Henry Jones of Britain's Gas Council. Tokyo Gas now claims to be second to none in to put it, has put him in the the delicate art of transporting centre of a major political and storing large quantities of the precious commodity (at minus 162 degrees C).

### Arranged

Two years after becoming president of Tokyo Gas in 1967 Mr. Anzai arranged for the first import of liquefied gas from Alaska Some 950,000 tonnes were shipped annually under a to get the most important. 15 year contract in specially built tankers. Today supplies of ENG to Japan have risen engieen fold to about 15.7m contracts with Brunel, Abu Disable and Indonesia. Japan alfeady accounts for 50 per cent of total world trade in LNG. A Government advisory committee says demand will double again in five years and reach 50m

LNG will fill the gap

will "pull its weight"-mostly for safety reasons-for some petroleum to LNG was to reduce air pollution, not to save money. "In 1969, when I first bought LNG from Alaska, some people in the Government criticised us because it was 30 per he recalls. LNG has since risen ten-fold in price, but the per thermal unit cost at present is about the same as oil entering the country. Mr. Anzai's deep involvement

in procuring natural gas "for future generations," as he like: dilemma, since 1972, Mr. Anzai has been the major Japanese negotiator in the tripartite Japan-Soviet-U.S. discussions on Siberian natural gas development, known as the Yakutia project, this is perhaps the most ambitious of the planned Siberian joint resource development projects, and in view of how much LNG Japan expects

Much to Mr. Anzai's dismay the project has been delayed (if not endangered) by the U.S. reaction to the Soviet invasion of Afghanistan In fact Mr. Anzai now wishes that the project had remained in Soviet and Japanese hands only. The U.S. joined after the Russians agreed to a call for co-operation from President Nixon back in the heyday of big power detente.

however, put him in touch

with some Japanese business-men in Europe who sensed a

chance to move into the Middle



Mr. Hiroshi Anzai

latest snag in June when the Soviet side failed to hold a meeting in Leningrad to present a progress report on reserves at the Yakutia site. The Russians must confirm that the reserves are at least 1,000bn cu metres before further commitments are made by the U.S. and Japanese partners (824bn cu metres have been confirmed so far). If the scheme eventually goes ahead the Soviet Union would for 25 years be obliged to ship 10m cu metres of gas annually to the U.S. and the same amount to Japan. A total annual produc-tion of 32m cu metres will be nuded if local Soviet demand is to be met as well.

The Japanese and Americans The Siberian project hit its have already extended about

\$50m in loans for the initial stages of the project, but the eventual costs, including those for the liquefication plant, port and 1,700 km of pipelines, will be in the billions. This seems a lot of money but the attraction of a geographically close source of LNG could make it worth while for Japan. Mr. Anzai could meet all the LNG needs of Japan's 252 gas service

### **Projects**

Meanwhile, Japan can expect to receive 6m tennes of Malaysian LNG from 1983 New projects (about 5m tonnes a vear) will come on stream in followed by Australia in 1986 (6m tonnes). Japan is awaiting a decision from Qatar on a 20-year project to start in 1988. The Russian LNG is scheduled from 1985. Mr. Anzai is hopeful that the

U.S. Soviet political differences will not interfere with his "purely economic" aim of cooperating with the Russians on energy. As one of the chief representatives Japan in Soviet-Japan economic discussions he has had to do more than his share of leaning toward the Soviet bear, while others in Japan perform the more popular functions of "leaning" towards China.

Not many people would envy Mr. Anzai his current role, but with 52 years in the energy busines and an eighth degree black belt in Judo, he obviously knows how to roll with the

R.H.

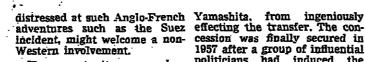
# Sohei Mizuno

MR. SOHEI MIZUNO had a direct hand in two of the most important steps taken by Japan in the energy field after World War II. He attended, in a junior position, the first high level business discussions on the introduction of nuclear power into "nuclear allergic" Japan, and he was among the original few who thought that a Japanese company could win a Middle East oll concession in competition with the West, the latter idea developed into the Arabian Oil Company, of which Mr. Mizuno is now chairman. Arabian Oll is Japan's only major producer of oil overseas. Now 57, Mr. Mizimo has moved among the most powerful business and political circles in Japan almost from the time he left Hokksido University, where he studied biology. His first job was as personal secretary to Mr. H. Kobayashi, one of the best-known post-war Japanese business leaders. It was in this Mr. Sohei Mizuno

nuclear power held in 1952. 'discussions suspended temporarily because of fears that the public would get wind of them. Four years later, however, Japan was hold enough to send a mission to the U.S. and Europe to study East oil business. nuclear power. Mr. Mizuno, as a result of his early experience,

capacity that he took part in the first two secret meetings on

was part of this group. The mission eventually recom- sion might have been absurd mended the purchase of a but for the fact that the Arab Calder Hall" type gas cooled oil producers were showing the nuclear power plant from the first signs of becoming disenwent against the better judg- perceived that the Arab leaders, negotiating the deal, Mr. Taro



The opportunity came when word of troubles in negotiating a French concession from Saudi Arabia reached Japanese ears. Mr. Mizano, by his own account, acted as a go-between in the complicated (and nearly unsuccessful) manoeuvrings which led to the formation of Arabian Oil Company in 1958, with Saudi Arabia and Kuwait as partners.

terest in oil exploration in the past six or seven years, that period seems like a dream now," recalls Mr. Mizuno.

### Obstacles

The obstacles to be overcome included a public denunciation of the project by the then Finance Minister who warned Japanese banks not to support the venture; reluctance on the ment of Mr. Mizono who felt part of investors to put up money (even after the Cabinet Japan would be better off finally gave its stamp of approval in 1957); and the fact devoting its meagre resources to more basic research. The that the company had enough funds to drill only two wells in the offshore concession it won (between Saudi Arabia and Kuwait).

The Finance Ministry objec-The Finance Ministry object the two countries. This says a tion to the project could have lot for the foresight and initial The idea that Japan, just back on the road to economic recovery, could nudge its way into a Middle East oil conceskilled it from the start, given the fact that Japan's foreign exchange law theoretically banned the transfer of capital needed to win a 6,000 square mile concession from the UK (Japan's first and last chanted with the West. Mr. Saudis This did not prevent the British reactor). The decision Mizuno and a handful of others colourful main character in

cession was finally secured in 1957 after a group of influential politicians had induced the Cabinet to grant approval.

The venture paid off. Luckily one of the first two wells struck oil, opening up the offshore Khaji Oil field. However, Arabian Oil still produces only a small amount of oil compared with Japan's total needs (it lifts 400,000 barrels per day, three fourths of which goes to Japan) The handful of Japanese com-"Considering the boom in in- panies that are involved in oil production together account for less than a tenth of Japan's

oil imports. Moreover, Arabian Oil has not been immune from gradual takeover by Kuwait and Saudi Arabia since OPEC finally asserted itself in the early 1970s. The company still turns in a healthy net profit, but this is after 99 per cent of its re-venues are taken by the producing countries in the form of taxes. The company does not rule out being taken over completely in the long run.

Arabian Oil remain the most important single investment that Japan has made to date in Saudi Arabia, and is certainly one of the most important chantive of the men who brought the company into existence. Depressingly, it also highlights how little Japan has done until recently to build up contacts between itself and the Arab world...

# **Condensed Statement of Condition** The Fuji Bank, Limited

O	Non-Consolidated Balance Sheet	(M.	arch 31, 1980)
$\sim$	ASSETS	(¥ in 1,000)	
0	Cash and Due from Banks		
0	Call Loans	-	
O	Securities		
$\sim$	Loans and Bills Discounted		-
0	Foreign Exchanges	,	(3,405,754)
$\sim$	Other Assets		( 2.075,080)
0	Premises and Equipment	156,285,145	( 626,519)
$\sim$	Customers' Liabilities for Acceptances		2 # pp# o tob
O	and Guarantees		
_	TOTAL	15,947,498,114	(63,930,640)
O	LIABILITIES	•	
_	Deposits	,	(45,623,864)
0	Call Money		( 4.872,167)
	Borrowed Money		( 2,319.764)
0	Foreign Exchanges		
•	Other Liabilities		
$\circ$	Reserve for Possible Loan Losses		( 461.078)
$\mathbf{C}$	Reserve for Retirement Allowances		
0	Other Reserves		
$\cup$	Acceptances and Guarantees		( 5,295,849)
$\sim$	TOTAL,	15,581,806,447	(62,464, <del>64</del> 8)
0	STOCKHOLDERS' EQUITY		•
$\sim$	Common Stock	89,100,000	( 357,186)
O	Capital Surplus	2,224,917	( 8,919)
_	Legal Reserve	22,030,000	( 88,314)
O	Earned Surplus	252,336,750	( 1.011,573)
_	TOTAL	365,691,667	(1,465,992)
$\cap$	TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	15,947,498,114	(63,930,640)

	(Year ended March 31, 1980)
INCOME	(¥ in 1,000) (\$ in 1,000)
	582,220,890 ( 2,354,019)
	136 219 304 ( 546,079,
	- 154,079,000 ( 617,675) - 37,225,689 ( 149,231)
Transfer from Reserves	6,837,177 ( 27,409)
TOTAL INCOME	979,404,436 ( 3,926,256)
EXPENSES	
Interest on Deposits	500,007,061 ( 2,004,438)
Interest on Borrowings and Rediscounts	140.355,301 ( 562.659)
Other Interest	16,790,250 ( 67,309)
	17,426,241 ( 69,859)
	163,141,868 ( 654,006)
	111,183,072 ( 445,713)
	424,279 ( 1,701)
	949.328,072 ( 3,805,685)
	30,076,364 ( 120,571)
	8,981,611 ( 36,0%) 21,094,753 ( 84,565)
	Interest on Loans and Discounts Interest and Dividends on Securities Other Interest Fees and Commissions Other Income Transfer from Reserves TOTAL INCOME EXPENSES Interest on Deposits Interest on Borrowings and Rediscounts

Note: U.S. Dollar equivalents are made at the rate of ¥249.45 per U.S.\$1.-



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# Ryukichi Imai

JOB-HOPPING IS not a need to write has not left him about the military implications may be the most valuable thing Japanese practice but it is what completely. For the past decade of nuclear fuel recycling Japan has to offer. We have Ambassador

quite a large part of his career a scientist I can understand the viction that the future of hopping jobs as well as basic facts of the military academic disciplines. He studied balance better than most people mathematics Tokyo University before taking three post-graduate degrees in three successive years at three different American universities (in political science, law and international relations).

With his American training behind him Mr. Imai joined the Asahi Shimbun, one of Japan's leading daily newspapers, as its specialist on nuclear power, but that job only lasted two years. He moved to JAPCO after his increasingly pertinent criticisms of that company's attempts to negotiate the purchase of Jana's first nuclear reactor (fru. the UK) convinced the the inside than the outside." important ways. "I was behind favour by offering them hard-Looking back on his days at the Carter-Fukuda confrontation ware." he says, "but it can just the Asahi, Mr. Imai says that of 1977," he says, alluding to as easily be argued that they

... for example I know just how much oil the Warsaw Pact would need to go to war."

Mr. Imai will not be the first non-diplomat to take up an ambassadorial post for Japan, but at 51 he probably will be the youngest to do so since the war. "Officially I don't know who picked me for the job," he says. But his extensive contacts in the academic world won him the acquaintance some years ago of the distinguished economist Dr. Saburo Okita, who last October became Japanese Foreign Minister.

His nuclear expertise has he inside than the outside." important ways. "I was behind Looking back on his days at the Carter-Fukuda confrontation

to says he has written about the from nuclear to Middle Eastern to learn to do just this." military situation in the Middle diplomacy derives from an Actually Mr. Imai has spent East under a pseudonym. "Being interest in people and a connuclear power cannot be understood without a grasp of energy problems as a whole. "Energy means oil and you can't hope to understand what is going on in the oil world unless you have some insight into Islam and the

### Thinking

Mr. Imai's thinking on what Japan can do to cement its ties with the Arab world would appear to put him one jump ahead of the Japanese politicians who made hurried tours of the region after the 1973 oil crisis offering cement factories or petrochemical complexes in return for guaranteed supplies JAPC management that it involved him with politicians of oil. "People tend to assume would "better to have me on and bureaucrats in other that we are doing the Arabs a that we are doing the Arabs a he made a mistake in opting for the tense period in U.S.- are doing us a good turn by journalism: "I have to be a part Japanese relations when the becoming our customers. In of the action." he says. But the Carter Administration's fears any case I feel that experience

Dr. Ryukichi Imai will be doing or so he has been turning out threatened to put a spanner in had the experience of building next month when he leaves his books either on his own or in the works of Japan's nuclear our economy up from scratch post as general manager for co-operation with others at the development programme—but since the war and of adapting engineering at the Japan rate of about one every two didn't thanks to some dextrous and improving technology Company years. Most of the titles relate behind-the-scenes negotiations, developed by others. The Middle (JAPCO) in order to become to nuclear power but Mr. Imai Mr. Imai's willingness to switch East is at a stage where it needs

> Taking his argument a stage further Mr. Imai says that Japan's course of development as a "non-military" State (i.e., a state which is relatively lacking in conventional military equipment) could offer some useful lessons to newly emerg-ing countries. His point is not that the Middle East (or other newly developing regions) should ignore the military facts of life but rather that Japan's experience suggests a broader definition of what constitutes a military capability.

"Nowadays possessing a certain number of F-15s may be less important to a nation than having a broad technological basefor example, technologies related to water could be of vital importance in the East," Mr. Imai Japan will certainly military Middle theorises. develop technologies with a are his major professional military as well as civilian interest. But the chances are "potential" and will have to that this time the switch may be decide on what terms, if any, to make these available to developing countries.



Mr. Ryukichi Imai

Mr. Imai says he hopes to stay in diplomacy at least for a while after making the switch from nuclear engineering. "I would like to think that they had more than one role in mind when they picked someone so young for the post of ambass If his new career fails to "catch on" he will at least have acquired a valuable new insight into the energy problems that that this time the switch may be more permanent.

### Shuichi Ishibashi SHUICHI ISHIBASHI is a happens to be located in stations using it have to be small, cheerful man who Environmental Protection —? small (about one-tenth the size graduated from the mechanical national parks

engineering department of the Environmental Protection Kyushu University and has Agency does not want to see spent most of his career working for Kyushu Electric Power Company, the private enter- problem is that some troubleprise utility which supplies some chemicals (including power to the southern main arsenic) come out with the island of Japan. That may not make him sound particularly off, normally by pumping back remarkable, but there is something about both Mr. Ishibashi and the company of which he is now vice-president that has brought streams of foreign visitors to Kyushu Electric's headquarters in Fukuoka.

Kyushu Electric operates the largest, and in one important respect most advanced, geo-thermal power station in Japan the Hatchobaru station which generates 50,000 kW of electricity from steam heated by Hatchobaru volcanic magma. Hatchobara uses a unique "double flash" system for seperating and concentrating the steam which was developed jointly by Kyushu Electric and Mitsubishi Heavy Industries and which is now being sold to many other countries lucky enough to have heat trapped under the ground. More interesting still, there

could, according to Mr. Ishibashi, be a lot more Hatchobarus in Kyushu before long if the Government takes the right steps to promote development. Mr. Ishibashi Kyushu's geothermal resources have been power resources have been estimated at up to 10m kW of "recoverable" power if the fairly shallow hot water reservoirs whose existence has been confirmed today are tapped. Kyushu Electrics present power generating capacity is about 8m KW-so geothermal power, in theory at least, has a good deal to offer.

Geothermal power is good, as Mr. Ishibashi sees it, because the energy itself costs nothing —at least so long as it is developed by the power generating company. All that has to be done is to sink wells into the ground and pipe the steam from them straight into turbines. The cost of electricity from such a system vorks out at about 10 yen per kWh—half the cost of elec-tricity from oil powered thermal power stations and with nearly the entire bill accounted for by the capital write-off cost of the power station itsel**f.** 

heautifully receipe for obtaining cheap companies may get their hands trouble-free power turns out on on the resources and make the closer investigation, however, to have some snags. A major the nose problem is that nearly all the geothermal heat in Japan geothermal energy is that power

the Environmental Protection disfigured by a proliferation of power stations. A second water and have to be disposed into the underground reservoirs , which costs money. Finally there is the unresolved question of just who is sup-



Mr. Shuichi Ishibashi

posed to be drilling for steam in Japan and on what terms they can sell it to others. Mr. Ishibashi says that Kyushu Electric prefers the "through process" system of geothermal development which basically means that the utility company does everything itself from drilling for steam in the first place to building and operating the power station. He admits, however, that the Government is "leaning" on his company to buy steam from independent developers so as to speed up the pace of develop-ment. Kyushu is at the moment studying how to do this: for example, whether to base payment on the flow of steam or on

Meanwhile it is facing awkward problems with several outsiders such as the Idemitsu Oil Company which have started drilling in promis-ing parts of the island where Kyushu also plans to drill. "We are afraid that steam may start to be developed in the same way as oil," says Ishibashi. In simple other words a few powerful utility companies pay through

the electricity generated from

A technical difficulty about

which of conventional thermal power stations) because steam pressures from the reservoirs is look. This situation could change radically, however, if deeper reservoirs (at say 3,000 to 4,000 metres) were to be located in Kyushu. Electric itself is officially not in the know about the existence of such reservoirs, currently the subject of research by a Government agency. The fact that it is just about to put in an order for a new drilling rig with a 4,008metre range suggests, however, that it has a shrewed idea that deeper reserves are waiting to be found. Geothermal energy is not the

only intriguing new kind of energy with which Kyushi Electric has been experimenting. Because its territory in cludes a large number of finy offshore islands with small (and under resent circumstances) uneconomic power requirements, the company is doing experiments with wind power, fuel cells, and Ocean Thermal Energy Conversion (meaning the use of different water temperatures on the surface and in the depths of the ocean to gene-

rate power). An Ocean Thermal pilot plant may go into action soon at Tokunoshima, the southernmost island in the Kyushi group and not far from where the James Bond film "You Only Live Twice," was shot. Pending the success of this project Kyushu Electric has to spend twice as much on generating power for islands as it does for others. .

Kyushu Electric is by no means the largest of Japan's nine electric power companies (Tokyo Electric for example is three times the size) but it has a remarkable number of firsts to its credit-including that of having operated its one and only nuclear power station at the (then) highest ratio of capacity ever achieved by a light water reactor. The feat was achieved by two technical innovations which the company dreamt up in its own labora-tories and then had tested by Japanese heavy machinery manufacturers including Mitsubishi Heavy Industries.

Mr. Ishibashi says nuclear power will take up most of the slack as Kyushu Electric steadily reduces it dependence on oil throughout the 1980s. In the long term, however, Japan's homegrown " energy should come into its

# Shizuo Asada

of Japan Air Lines, is a silver- long after other industries have haired former bureacrat. He switched to other forms of spent most of the 1950s laying the foundations for the remark- JAL has tried practically every able expansion of Japan's merchant navy and most of the 1960s helping JAL to become approximately number three in the world.

Since 1971 (when Asada 10 per cent) Asada lists "big became JAL president) he has measures like computerised had a different problem on his plate. JAL's profits took a plunge after the first oil crisis when its fuel bill doubled in 12 months. The airline made an JAL flight magazines on lighter impressive comeback after an Asada-inspired reconstruction programme had been implemented, but by the end of 1978 the same problem cropped up again. JAL's fuel bill jumped from Y49bn (£97m) in 1978 to Y107bn (£212m) last year and to an estimated Y171bn (£339m) costs, fuel was 8.6 per cent in 1972. In 1980 it will be 33 per

MR. SHIZUO ASADA, president Airlines will be "oil guzzlers" energy. Short of switching fuels. conceivable method of cushioning the effect of the oil crisis.

Among a long list of schemes this year (which between them should cut fuel consumption by flight control (which ensures that pilots fly the most economical routes and altitudes) and "small" ones like printing the paper (an estimated fuel cost saving of \$60,000 per year).

### Realistic

admit that cutting feel con-range Bosing 747s with 550 sumption in 1980 will not be the seats. The 422 all-economy seat end of the story. There will be configuration on the JAL no ceiling on oil prices or on the jumbos which fly from Tokyo ratio of an airline's costs which could be accounted for by fuel international routes) and one. (a 40 per cent ratio is per- Asada claims, that has been The one thing that JAL confectly conceivable Asada says), achieved at no cost in passenger as a bureaucrat looking after not do about its fuel problem. But aviation is a young industry comfort. "Our engineers the shipping industry may have Asada says, is to stop using oil. and must have a future what- remodelled the seats on the 747 marked his attitudes towards

ever happens to oil. remains supremely confident notice the difference."
that he can pilot his airline Asada sounds calm and conthrough this crisis and the next one no matter how steep the price rises that have to be faced. deal with energy problems com-

pare with those of other airlines, Asada says that "while we may not be number one, we must be somewhere fairly near the top." JAL's yield in terms of available inside Japan. One of the reasons why its

domestic yields have grown so fast is that JAL is the only air-Asada is realistic enough to line in the world to fly shortto Horolulu is also a record (for to

Asada so skilfully that you could never

fident when he discusses the immense practical difficulties facing his industry as a result Asked how JAL's efforts to of higher oil prices, but less so when the conversation turns to international aviation politics. He says that U.S. policies of laissez-faire have helped to create " miserable load factors that are a "waste of energy" tonne-kilometres per gallon of for the airlines concerned. He fuel has risen by 24 per cent on finds it particularly unreasoninternational routes over the able that Japan should submit past seven years, and by an im-to U.S. air fare policies as a pressive 40 per cent on routes precondition for obtaining concession on the Pacific routes linking Japan with the U.S. 'There's an imbalance already in the Pacific so they have no right to demand conditions from vs. The de-regulation of aviation policy advocated by President Carter sounds beautiful in theory mut it is simplistic to try impose one's policy on

others. Asada admits that his career



Mr. Shizuo Asada

aviation. Aviation, he says, is the daughter industry of shipping and will ultimately prosper if the same principles are applied to its management. To Asada this means co-operation rather than cut-throat competition—especially at a time when energy problems are making life more difficult for everyone

What's stonning you However keen you are to get ahead, having the drive means nothing if the wheels won't turn for you. And a lot of businessmen haven't made any sort of move because they just can't see any way forward. It's a situation we understand. A situation repeated a thousand times over throughout the world. After all, knowing your own home market doesn't necessarily give you the passport to succeed elsewhere. The fact is, would-be exporters need market information and background knowledge before they can commit themselves to venturing abroad. Such information and knowledge comes only with extensive and intimate experience of world markets. At Mitsui this is what we offer. Trading company to the World. It's all here. The help. The expertise. All you need for trading anywhere in the Northern or Southern hemispheres. As one of the worlds largest general trading companies, with a tradition for third party involvement, we at Mitsui take the global view. We do this by offering an extensive range of services throughout our network of offices in 79 countries worldwide. Services that range from the physical movement of goods to the provision of financial resources. We take the Global view. Not for us the parochial outlook. We view our operations as beyond the boundaries of national interest. Our involvement with the world economy is that of motivators. Encouraging and helping to promote positive expansion. This is evident in our entrepreneurial role in the supply and distribution of raw materials, semi manufactured items and finished products around the world. We provide the finance and guarantees for trading and for plant. Many a time, we involve ourselves in getting projects off the ground. This means taking the responsibility from A to Z. First establishing and thereafter nurturing an industry on to success. We also act as intermediaries in technology transfers and provide organisational backup for major projects. Ask what we can do for you. Whether it's high technology or consumer luxury products, chemicals or machinery we are ready to talk. Should you want to know more about us write now for our company brochure. We'll be pleased to hear from you. MITSUI & CO., LTD.

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هكذامن الأحمل

# Financial lines money July 11 1980 The Gordian Knot of the rates & Local Authority Expenditure [Key Indicators of the Economy & Local Authority Expenditure]

BY ROBIN PAULEY AND ANATOLE KALETSKY

THERE IS only one day each ment and Planning Bill. This for all their other services ex- to provide the same level of pated. Although civil servants authorities does not necessarily when Britain's body received its final reading in the clusively from local revenues. Service. It does this by using a at both the Treasury and require equality in the stan-politic shows any interest in the House of Commons last week. Advocates of local autonomy hideously complicated formula. Environment Department dis deader equality in the doings of 3m people who pro-vide their most essential services, organise their children's education and spend over one eighth of the nation's income. That is the day early in April when the bill for local ithority rates arrives. Calls go out in local newspapers for cuts in bureaucracy and waste, there tate exposes of the venality of local councillors and cries of oringe about the inequity of the rating system.

But the furious passions which the rates arouse are as epitemeral as they are powerful. so that the many proposals for reforming local government finance have invariably been bundled up in miles of red ispe and ignored by politicians, fofficials and the public at large.

### Confidential

as However, the Department of Environment's own confidential report on abolishing the rating system could have more lasting rensequences than any of the earlier proposals for reform. For there are two new factors to counteract the paradoxical and debilitating combination of papathy and undirected fury that is the British public's stock response to local government

The first is the Government's somewhat rash manifesto com-milment to abolish rates as soon Las the success of its other fiscal "and monetary policies allows. Ar recent Conservative confererree Ministers have been - noticeably taken aback at the seriousness with which party activists, some of whom see tax, are clinging to this promise.

Secondly, there is the muddle and embarrassment which the

but still has obstacles to surmount in the Lords. Although it rarely made the headlines, the Bill has caused Ministers more headaches than any other piece of legislation this session. The Government's intention, to increase its control of local spending, has flown in the race of many Conservative stalwarts' faith in local government and decentralisatio

The two features are really inseparable because of the popular judgment that the rating system is far more inequitable and onerous than central government taxation, based on income and expenditure, and so makes local authorities inevitably rely on central government grants for a very high proportion of their spending — about 50 per

cent total expenditure. But the great disparity between local spending and local revenues underlines the suspicion in Whitehall that councils cannot be trusted to control their spending responsibly and also accounts for the relative lack of interest among electors in local

If councils had to raise much more of their money locally their fiscal demands would make a greater impression on local electors. The link between local spending decisions and their costs would become crystal clear and local residents would have strong incentives to control their councillors' spending decisions.

An alternative approach to

the problem of "accountability" would be to remove the financing of certain nationwide services from the local authorities. Education, for example, accounts for half of all local expenditure. Handing over its attempts to compensate for financing directly to central demographic and social disgovernment would be highly parities between authorities.

supplement rates with other DoE committee have put for- and These extra revenues could then replace much of the Rate Support Grant (RSG) and enable the Government to cut national taxes. It is possible that some such scheme may be put

In the meantime the new RSG arrangements contained in the the views of many supporters Local Government Bill will give of local government, makes it

to electors in the next General

Advocates of local autonomy hideously complicated formula. would like to see a decision to which assesses spending needs modify the present rating sysbased on past expenditure tem rather than abolish it and patterns. This has been widely criticised and the formula is local taxes, such as the income not helped by the fact that and expenditure taxes which the much of the data used is old unreliable, making complex calculation extremely

> The Government's proposals for reform fulfil the aim of tightening control over local government finance. But an important book\* by Tyrrell Burgess and Tony Travers pub-lished this week, and reflecting

A growing number of officials now admit privately that more detailed consideration might have resulted in a different alternative to RSG

the Government plenty of head-clear that the proposals out-aches in its dealings with lined in the Government's Bill sed only the symptoms of the unsatisfactory relationship between local and national govern- still exists in Britain.

ments. The old Rate Support Grant consisted of three components the most important of which will now be combined into a new "block grant." Under the present system the "resources element" is designed to compensate for differences between authorities in their rateable value per head of population. But it is a poor indicator of resources or taxable capacity and does not fully equalise between local authorities.

The " needs Government has brought upon controversial, but would leave Otherwise they would have to grant system will not work in ratepayers and residents within itself with the Local Government many authorities able to pay spend vastly different amounts the way that has been antician authority and in different

Labour and Conservative coun- are riddled with technical cils alike. For the Bill addres- problems and claims that they will undermine the whole system of local autonomy which

> Under the new plan the Government will now assess what it thinks each of the 457 local authorities in England and Wales needs to spend. Then a rate poundage will be levied which will be the same for every authority and would raise different amounts de-

The problem with the proalthough it appears to be it has been very difficult to establish in detail. Burgess and Travers have put forward detailed reasons why the block

Environment Department agree with the strength of the argument against block grant, a growing number now admir privately that more detailed consideration might have resulted in a different alternative to Rate Support Grant.

The authors show that the new system will be just as complicated as the present RSG. and that there is little chance of it being comprehensible to politicians or electors.

The book's detailed factual analysis of the present RSG system and of the alternatives being taken very seriously the DoE and among ministers. However its assumptions about the inviolability of local government are not fully explored or defended. The authors' own alternative is a simple per capita distribution of the RSG. Unfortunately this is not dealt with in the same death as the criticisms of other schemes, introducing a some what asymmetric relationship

into the argument. The authors show that a population-based distribution would give results surprisingly similar to the present arcane methods and suggest that it would give central government enough control of aggregate local spending while inhibiting interference in the affairs of individual authorities.

The Treasury and Environment Department, however, are unhappy about population and per capita-based schemes because they detract from the pending on each authority's central importance which the rateable value. Government attaches to trying Government attaches to trying to find a scheme which, above block grant is that all, equalises between authorities, i.e. tries to be fair. Burgess eminently desirable in principle, and Travers say this philosophy has gone badly wrong because of the confusion over equity,

equality and equalisation.
Equity between individual

Commission conference opens, Brighton (until July 26).

Manchester's policy

landeville Hospital.

Confederation of British

and

Byward public

dards of services and rate payments and certainly does not require equalisation between different authorities which may have no bearing on the treat-ment of individuals within authorities. The main cause of apparent inequality between authorities is not their resi-dents' relative incomes, but

their rateable values. One of the main political objections to rates is that they are so "visible," since the rate demand comes as one lump sum every year. The DoE working group examining alternatives sought less visible taxes, but group found that this criterion conflicted with another requirement-"-accountability "-which would ensure that local residents could see the connection between their taxes and councillors' decisions.

### Alternative

In considering an alternative to domestic rates the main op-tions looked at by the Environ-Department group were:-

assigned revenues from national taxation.

local indirect taxes on ex-

local taxes on commerce and industry local taxes on personal in-

low-yielding 50urces

The working group is thought to have favoured two—either a sales tax as a local indirect tax on expenditure or some form of local tax on personal incomes.

A local variable sales tax, similar to that proposed by the Layfield Committee on local Government finance† in 1976, is probably the main option. It would easily raise a substantial pointed out that as most shop- the local authority and so would ping is done within the local authority area where people live, a local sales tax has the merit that most of the tax would be paid by local resi-

1975

1976

1977

- AVERAGE EARNINGS

LOCAL AUTHORITY REVENUE EXPENDITURE IN ENGLAND & WALES

EVERAGE RATE POLICEDAGE

Jan 1974-100 RETAIL PRICES

200

But Layfield thought a sales tax would be too difficult to operate and that it failed to would be complex, particularly if levied in addition to VAT. Depending on the scale and scope of exemptions it would mean annual assessments of between 500,000 and 1m tax returns from traders.

The other favoured alternative, also considered and deemed the best by Layfield, is a local income tax on personal income. Small percentages of income tax revenues could give local authorities large revenues. amount of money. Layfield The tax rate would be set by

vary from area to area. The Government could national taxes to maintain the level of the overall tax burden. Layfield concluded on this issue that "the only way to sustain a vital local democracy is to enlarge the share of local taxation and thereby make meet the test of local account- councillors more directly ability. Its administration accountable. The administrative

1978

cost of introducing a local tax would be justified. After many decades of uncertainty the time has come for choice on the issue of responsibility." Layfield's time has come and gone. But before the next General Election the time may come again for a decision by the Government.

\* Ten Billion Pounds, by Tyrrell Burgess and Tony Trevers; Grant McIntyre: £4.95 †Layfield Committee of Inquiry into Local Government Finance 1976; Cmnd. 6453; HMSO £5.75

### Letters to the Editor

### Investment in transport

From the Director British Road Federation.

Sir Two years ago, the sichairmen of British Rail and of the British Road Federation beere joint signatories of a letter to this newspaper which made a plea for greater transport in-véstment résources. That letter concluded: "The transport in-dustry must be seen as a whole, vital to the nation's industrial development. In writing this letter together, we want to shared concern, steel and rubber point out that he is familiar with wheel within the industrial with wheel within the industry. We our comparative claims on the Generalife gardens in the resources within the industry. Alhambira. What Mr. Penn but with decisions on invest-might not know is that Robin ment strategy to provide the Lane Fox followed most of right framework for each trans-

declined by just 18 per cent. 35! Indeed investment in rail is. If that's the new breed of running at three quarters of the "Little Englanders," I take off sible for less than in 14 pas- is talking about! senger miles and one in six Charles MacKinnon, freight ton miles moved. This Steelbrite works,

what it can offer." .

Road users need have no fear that were all transport projects "assessed on their relative merits and subjected to the same kind of tests." this would result in concellation of the M25 in favour of four high speed. From Mr. L. Crystal trains as BR suggests. With pressing article by Hazel Duffy (July 17) daily, each mile of the M25 the answer to the problem of when complete will carry well higher status for engineers is over 100,000 passengers and simple. Restrict the term 200,000 tons of freight. As this rengineer "to persons qualified is over five per cent of the total by university education and/or daily traffic carried on the membership of one of the presenting of the BR network it is sent institutions which prescribe the regulations governing the result in concellation of the M25 construction say the least—that is transport terms four high sieed trains or 28 miles of elec-pided route represent better

should be noted that the BR or investment appraisal create rublems for railway electrificafor schemes in that the massive lattal costs in the early years authorith the discounted values of the benefits in the succeeding rs." Given economic stringenty it is hardly surprising that loss making projects should be deferred when there are many profitable investments

BR complaint.—Public capital automobile engineer, etc?
investment has been cut back T. Crystal much too severely overall—all agree on that. If economic fleet House, prosperity is ever to be regained any artists. regained, our capital base must be protected and improved. Recovery will not be achieved by public sniping (at public expense) by BR at the road against budget, already much too low on any criteria-economic, social, From Mr. A. Guest

R. H. Phillipson.

### **Glorious** An old textile machine may

From the chairma Consolidated Metal Co.

gardener

Sir,—When Mr. Penn of Brussels suggests (July 15) that Robin Lane Fox is "chauvinistic Little Englander ... supidly insular ... anti-Europe ... myopic " etc, I feel that he has nicked the wrong laddie.

I do not happen to be personally acquainted with Robin Lane Fox and he hardly needs me to defend him, but having so much enjoyed his writings over the years I would like to and I would bet a pound to a that he has also visited Alexander the Great's routes port mode to make the most of from Macedonia to Persia to India to Egypt and then pro-It is odd then that BR should duced the widely acclaimed his-feel it appropriate to claim that tory of Alexander. He is also a rail investment is unfairly well known book reviewer, won treated in comparison with road the gold medal for garden (advertisement July 17). The design at Chelsea Flower Show fact is that in the last five years, . a few years ago, paddled around trunk road investment has been the Arctic seas in his student reduced by no less than 40 per days, is a Fellow of a famous cent, while rail investment has Oxford College and is still not

level of the trunk road construct mon chapeau to them! In short, tion budget. Yet rail is respon- Mr. Penn doesn't know what he

is hardly undervaluing the 111 Corpenters Road, E15.

### Higher status for engineers

the regulations governing the term "chartered engineer." Prohibit the use of the word "engineering" in company titles or names unless at least 50

And on electrification, it per cent of the directors and at east 65 per cent of the staff of the company are chartered engineers. The Press and other media should stop using the term "engineer" when referring to

trades unionists and others involved in the engineering indus-try, unless specifically related to chartered (ie professional) engineers. Chartered: engineers themselves should stop qualifying

their own title. We do not expect which are being put back—act to see conveyancing solicitor, least, important industrial road contracts, solicitor, wills links and by-passes.

This surely is the nub of the engineer, chemical engineer. L. Crystal.

Seltrust Engineering.

# Life is 6-5

safety, environmental or inter. Sir,-Professor Harold Edey, in his third paragraph of the letter printed by you on July 9. R. H. Phillipson.

British Road Federation.

is precisely, but entirely theoretically, correct. or may not; as a matter of fact. be more efficient from the conditioning point of view.

Whether it is so or not depends upon the relative factors of labour, preference in skill and the cost of newly-manufactured parts, assuming that they are available and/or still currently more palatable with retraining produced. Assuming yet again, as a sweetener? Temporary those two relative factors, reconditioning is no problem at 2ll. The cash outflow for an old

textile machine, even assuming it was virtually inoperable, would be either more or less, depending on its condition and the two relative factors cited above, than the cash outflow required to service, not to say capital cost as between an old and a new machine is never zero, except in theory constructed from models, but always in fact and practice variable. The only exception to that prescription is instanced when the entrepreneur makes a practical balance through current cost accounting between obsolescence and desirability. Even supposing that he does so with an acute splitsecond timing depreciation, in both the old textile machine that be has as part of his capital and the new machine that he may choose for its replacement, will occur. That is because the Laws of Physics are not sus-pended even for professors of the subject of economics, let

alone entrepreneurs. A. J. Guest. 152B. Coldharbour Road,

Bristol 6, Avonmouth.

### Hard times and From Mr. P. Mason no cushions

From Mr. R. Miller

Sir,-From reading (July 16) your report of the Chancellor's Government's policy is to newer industrial activities and "persuade" some labour to services. move out of the manufacturing sector. For this policy to be realistic there must be sufficient demand in those other sectors to absorb those people and the economy must, therefore, be tuned accordingly.

It is so sad seeing companies which were viable and reasoncan no longer export due to sterling, somewhat unexpectedly given the UK's other problems, becoming a hard petro currency and by crippling high interest rates which have hit those companies which are financially structured through gearing.

of Britain's great

strengths in the past has been its imposative ability, but industry in recent times has sadly failed to come up with sufficient money spinning ideas. or if it has, insufficient dance on oil, my company incentives have been made changed over to gas — only to available for their commercial exploitation. Should not this faced with a 54 per cent in-Government, be encouraging crease in price for that companies to tap the innovative commodity! talent we have through greatly increased spending on R and D. please tell a complete innocent an item which is often the what else our company must do first to he cut by companies to remain competitive in price in recessionary times. New while saddled with these ideas which are financially burdens. viable could result in many of the skilled labourforce who

Could the Government not industry statement on pay. more openly embrace a policy of retraining workers by pro finance committee meets on city's operating maintaining and re-viding more financial and practical assistance through Sotheby's auction Charles I the provision of more facilities letters and Civil War documents, and trainers, so that companies Sir Peter Gadsden, Lord Mayor of London, attends which foresee the time when opening of subway, EC3. they will have to close can make the bitter pill of redundancy employment subsidies are not

really the answer, they are

merely stop gap expediencies.

If this Government could show a little more sympathy in the implementation of its policy, I am sure it would have more universal backing. It is so depressing to read that the TUC is yet again declaring war Protection Bill. It, of course. has no mandate so to do from the electorate nor from its own enormous muscle which can only be countered if the vast majority of the public support the policies of the Government. It is much easier to vote in a Government on such a ticket before recession has come and before mass lay-offs occur. But when we are in the midst of such a policy holding a hard line can appear callous, even though right, and some tempering by showing more of a human face to the problem may he all that is needed to carry the support of the vast majority of the country. R. H. Miller.

127 Wade's Hill. Winchmore Hill, N21.

### Competition and costs

Sir.—Re the report by Elinor Goodman (July 16), Chancellor Howe argues that unit labour costs must be cut in order to make ourselves competitive abroad and that the resources speech it does appear that this should be redeployed into

Ninety-five per cent of my company's business is for export and for the last 18 months our prices have literally been battered to death by foreign com-petition. We are only too well aware of the need to reduce: unit labour costs, especially in the light of continuing falling ably well run going out of sales. Reducing labour unit business simply because they costs is something which is supcosts is something which is sup-posed to be in our own hands but this is further aggravated by trying to reduce costs which are being forced upon us.

For instance, the bills for telephones, postage, heating/ lighting, general and water rates keep coming in with no signs of any reduction in their labour unit costs. When will something be done to control the costs of these ridiculously overmanned and inefficient monopolies? Last year, in an effort to reduce costs and dependiscover that this year we are

Would Chancellor Howe

Peter W. Mason would otherwise be redundant. Baronet Motor Accessories. heing relocated in these new 126, Morville Street.

### **Today's Events**

UK: International Whaling season opens, Old Vic (until publicly owned and supported EEC Foreign Overseas: Ministers start two-day meeting,

Brussels. EEC Fisheries Council meets.

Luxembourg.

King Baudouin leads parade in
Brussels to mark Belgium's

"fete nationale."

Communities (Treaties)
mentary revenue decision
Communities (Treaties)
mentary revenue decision
New construction ord Prince Charles starts four-day official visit to France to visit

Formal turf cutting to start elements of French armed forces. PARLIAMENTARY BUSINESS work on new Olympic village for paraplegic athletes, Stoke House of Commons: Debate on Opposition motion on Govern-Baroque opera and ballet ment's damaging policies towards quarter).

industries. Motions on Members' salaries, pensions and allowances. House of Lords: Housing Bill report (first day). Euro-Communities (Treaties) (supple-mentary revenue decision) Order.

New construction orders for May. June provisional figures for retail sales. Industrial and commercial companies appropriation account, net acquisition of financial assets and net borrowing requirement

**COMPANY MEETINGS** See Financial Diary on page 5. COMPANY RESULTS Final dividends:

Cawdaw Industrial Holdings. House. Initial Services. Gorman Holdings. Interim dividends: Alexanders Discount. Lambert Howarth Group, London and Lomond Investment Trust. Meggitt Holdings. Interim figures: West Coast and Texas Regional Investment Trust. LUNCHTIME MUSIC, London

Piano recital by David Roddis St. Lawrence Jewry, 1 pm. Organ recital by John Scott, St. Michael's Cornhill, 1 pm. Baroque music for recorders, St. Anne and St. Agnes, 1.10 pm.

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### North of England Development Council

Industrial Promotion Unit Bank House Carliol Square Newcastle upon Tyne NEI 6XE

Telephone 0632 610026 Telex 537212

### **UK COMPANY NEWS**

**Buyers for Fodens to** 

meet with Receivers

### Woolworth plans for bigger DIY share

F. W. Woolworth is planning to increase its share of the DIY market by more than half over the next five years through the creation of a new specialist division.

The company expects to open at least 25 out-of-town DIY stores and also to expand and modernise the space devoted to DIY in its existing outlets. The achieved through the conversion of some stock room areas and through bungalow extensions

behind certain stores. allocated to DIY, which includes lighting and gardening, will be increased by a quarter to around 20 per cent of the total. The proportion will vary greatly from store to store.

The new out-of-town stores should have at least 20,000 square include garden centres occupying an additional 10.000 square feet. Woolworth already claims to be by far the largest DIY retailer in the UK, with around

### Comm. Bank of Near East improves

The directors of the Commercial Bank of the Near East say that unaudited results for the six months to June 30, 1980, show an improvement compared to those for the same

period last year.

Present indications are, they say, that results for the full year to the end of December. 1980, will show a continuation of this

There was a taxable surplus in 1979 of £257,000, which compared to £296,000 for the previous year.

### Cadbury (Aus.) shows increase

Net profits of Cadbury Schweppes Australia rose from AS3.47m to AS4m in the first half to June 14, 1980. Turnover went ahead by 9 per cent to A\$99.94m. The rate of progress indicated

by the half-year results should be maintained in the second half, says air Rupert Clarke, the chairman, despite competitive

The improved first-half figures follow action to improve management control and competitivenes in the confectionery division.

### FT Share Information The following securities have

been added to the Share Information Service appearing in the Financial Times: Mines—Miscellaneous). (J. N.) (Vimto) Nichols Strata Oil (Oil and Gas).

BY JOHN GRIFFITHS RECEIVERS at Fodens, the heavy truck manufacturers, are

with several potential buyers. No serious candidate has yet been identified by the receivers. Sir Kenneth Cork and Mr. Philip Livesey, of Cork Gully. The receivers have also indifloor space will be cated that an offer being prepared by Fodens' distributors has little chance of succeeding.

The T. J. Richardson group. In existing stores the space of Oldbury, Birmingham, whose interests include Fodens' largest Midlands distributorship, held a meeting on Friday at which 12 distributors Foden pledged their support for, an offer proposed by Richardson. The other distributors would be offered the chance to take up minor shareholdings.

But it is clear that the re-ceivers do not share Richardson's belief that £10m would allow them to buy Fodens' assets and put the company back

Fodens' stock was valued at just under £5m when trading in its shares was suspended on Monday. But its assets total, according to the Receivers, about £40m. Thus any company wishing to take over the assets -which as a result of the receivership would be free of Fodens £35m debts—would be expected to pay considerably closer to their book value than Richardson is prepared to offer.

The receivers indicated yeson Friday that they expected, instead, to be able to put all the assets into a new company and Toys of Weilingborough.

### BOARD MEETINGS

Jarvis (J.)

Negretti and Zambra
Provincial Cities Trust

heavy truck manufacturers, are	BUAKU II
to hold meetings this week with several potential buyers.	The following companies have notified dates of board meetings to the Stock Exchange. Such meetings are usually
No serious candidate has yet been identified by the receivers, Sir' Kenneth Cork and Mr. Philip Livesey, of Cork Gully. The receivers have also indi- sected that an offer being are-	acid for the ourpose of considering dividends. Official indications are not available as to whether dividends are interest or finals and the sub-divisions shown below are based mainly on less your's timetable.

TODAY interms -Alexanders Discount, Lam bert Howarth, London and Lomond Investment Trust, Meggitt. Wood (S. W.) †Amended industrial. Finals: -- Cawdaw Resnarch Investment

float them off to someone of commercial

Dodge. vehicles arm of Talhot, has told shop stewards at the Dunstable trucks plant that short-time working will be introduced after the annual boliday on August 11. About half the 2,400 workforce is likely to affected. The plant, wh makes a range of light and medium trucks, is not expected to lose more than one day's

Sale agreed for DCM's **Burbank Toys** 

Mr. Paul Shewell, of Coopers and Lybrand, the receiver of the failed Dunbee-Combex-Marx toy group, has started that agreein principle had been reached for the sale of Burbank

This forms patr of a trio of companies which former DCM joint managing director Mr. Richard Beecham is planning to buy, backed by a consortium including UK and overseas banking interests and industrialists.

Crown House, Initial Services, Siebe

FUTURE DATES

Burbank manufactures and distributes Super Hern Dolls and related products, pre-school and nursery toys, action toys and talking and non-talking soft toys. The other two companies Mr. Beecham and his associates want to buy are the Pedigree Dolls and Toys subsidiary and Comhey. which makes small children's games and toy vehicles.

Earlier this month it was announced that the group's DIY subsidiary Martlet Services Group was to be sold to a City consortium including the former management of the business headed by Mr. Basil Feldman, DCM's other joint mangaing

director. Still to be decided is the future of Hornby, whose pro-ducts include car racing sets and

## Black Arrow held to £0.46m

and retail distribution of office furniture and equipment to electronic components and electrical appliances, rose slightly in the year to March 31, 1980, from £453,190 to £458,993.

by 28 per cent to £220,000, against £171,000, and the directors expected full-year figures to show an improvement

But towards the end of the year the extraordinary item, are general trading conditions were shown as 6.16p (5.89p).

satisfactory. 2.5p net compared to 2.2p.
Turnover for the 12 months

At mid-year the surplus was up

Taxable profits of the Black difficult and against this back. Retained profits show Arrow Group, whose interests ground Mr. Arnold Edwards from £1.35m to £1.62m. range from leasing, wholesale chairman, regards the results as A final dividend of 1.6p makes

> came to £6.74m, against £7.20m which included £974,000 from discontinued operations. Tax was down to £52,024 (£64,218) and there was an extracredit of £26.000

ordinary (£138.486) Earnings per 50p share before

### Insurance interests merged

These Bonds were offered and sold outside the United States of America.

This announcement appears as a matter of record only.

Unilever N.V.

US \$ 100,000,000

934% Bonds due 1990

Deutsche Bank

Aktiengesellschaft

**European Banking Company** 

Limited

Credit Lyonnais

Union Bank of Switzerland (Securities)

Limited

the property and development group with insurance interests. and Eastern Produce (Holdings), the plantations company, have completed a contract for the merger of their respective insurbroking subsidiaries. Frampton and Ernest Notcutt Group.

The merger was effected by the is ue of shares of Ernest Notcutt for the marger.

London Merchant Securities, Group. The net tangible asset the property and development value of the compan ies whose shares were acquired is approximately £540.00. Eastern Produce (Heldings) will hold a majority of shares of the merged interests through the Ernest Notcutt Group and London Merchant Securities will maintain its

investment in the merged group. Aproval has been received from the Committee of Lloyd's Retained profits showed a rise

### **Romney Trust** up to £0.7m at halfway

With gross earnings up by £193,000 to £1.34m, Rommey Trust, investment company, reports an increase in after tax revenue from £0.51m to £0.7m for the six months to June 30. £390,931 Taxation took (£278,063). Expenses, interest preference dividends £244,686 accounted for

The interim dividend is lifted to 1.3p (1p). Last year a total of 4.39p. including a special dividend of 0.69p, was paid on

net revenue of £1.28m. Earnings per 25p share at halfway are given (1.82p). Net asset as 2.49p 133.7p (122.9p). Market value of Romney's investments at June 30 was £40.5m

### Robert H. Lowe up but warns on outlook

Current

Aug. 14-25 Aug. 17-23

Aug. 20-23

Current

Taxable profits of clothing manufacturer Robert H. Lowe rose in the six months to May 2 by £71,544 to £303,015 on turnover up from £3.27m to £4.18m. However, the directors warn that with the forward order position at its lowest for some years

as a result of the recession, pros-

pects for the second half are not

It is inevitable, they say, that some short-time working will be necessary within certain units of the group and this in turn will affect profits for the second half. The directors are endeavour ing to pursue new business opportunities and are reluctant

to make any forecast for the rest of the year. After all charges, including tax of £158,000 (£120,500), net profits in the half year were higher at £145,015, against £110,971.

An interim dividend is effecttively maintained at 0.665p. A final of 1.5125p was paid last

### Mild winter lifts Francis Parker midway

performance Trading Francis Parker in the first half of 1980 had been better than expected, Mr. R. K. Francis, chairman, told shareholders at the annual meeting, and had been helped by the mild winter but hampered by a wet second

He warned, however, that high interest charges had used up a disproportionate part of the improved results. The recent 1 per cent reduction in interest rates would have only a marginal

effect on the full year. Demand for raw materials was reducing, although the group was receiving more than its fair share of the available business. and order books for the block-making and pre-cast flooring companies were satisfactory. Last year, pre-tax profits were up from £790,000 to £959,000.

### Sheffield Refreshment bounces back

Aug. 26-28 ......

Aug. 28-29 ......

Desnite the directors' cautious outlook at midyear when taxable profits fell from £86,420 to Sheffield Refreshment £75.186. bounced back in the second six months. For the year to March 31

1980, there was a taxable surplus of £250,688 (£219,857) on turn-over up from £1.3m to £1.42m. A final dividend of 1.62p makes a net total of 2.32p, against 2.29p. Tax charged rose to £129,796 (£106,426) leaving earnings per

25p share of 6.77p (6.35p).
The company operates as an holelier, restaurateur and banqueting specialist.

SPAIN	•	July
19	80	Pri
High	LOW	
226	203	Banco Bilbao
258	217	Banco Central
220	203	Banco Exterior
230	200	Benco Hispano
137	117	Banco Ind. Car
175	141	Banco Madrid
282	237	Banco Santander
190	140	Banco Vrquija
238	208	Banco Vizcaya
215	200	Banco Zaragoza
106	75	Dragados
62	58	Espanola Zinc
66	53,2	Fecsa
40	23.2	Gal. Preciados
71 7	58.7	Hidrola
68.2	57 5	lberduaro (
120	100 7	Petrolcos
92	79	Patroliber
115	107	Sogelisa
63	51.5	Telefonics
67 5	58 2	Union Elect

### BUSINESSMAN'S DIARY

### UK TRADE FAIRS AND EXHIBITIONS Venue Earls Court

Royal Tournament (01-930 6009) (Until July 26)
Gift Fair (0282 867153) (until July 24)
Microcomputer Show (0895 39252)
Scottish Furniture Trades Exhibition (041 649 1954)
International Gifts Fair (01-855 9201)
Computer Circulate Exhibition (09974 98911) Aug. 14 ....... Aug. 37 ..... Computer Graphics Exhibition (09274 28211) Aug. 13-15 ..... Ideal Home and Leisure Exhibition (0202 20827) British Musical Instruments Trade Fair (01-855 9201)
The Piano and Electronic Organ Trade Fair Aug. 17-20 ...... (01-428 1590). Ideal Home and Trade Exhibition (06333 64538) Modern Homes Exhibition (0283 54676)
Trade and Entertainments Exhibition (0689 36431) Aug. 20-25 ...... Aug. 23-25 ...... Aug. 23-30 ...... International Motor Cycle Exhibition (0203 27427) Giftware and Fashion Accessories Trade Fair Aug. 31-Sept. 4... (08833 4371) Aug. 31-Sept. 4.

Olympia Metropole Hotel, Brighton Newcastle University Trade Fair The Connaught Rooms, London WC2 Leisure Centre, Pontypool Guildhall, Preston Moat Park, Maidstone Earls Court Bristol Exhibition Centre International Watch, Jewellery and Silver Trades Earls Court Fair (01-837 3636)

TRADE FAIRS AND EXHIBITIONS

International Photogrammetry Trade Exhibition (until July 24) Trade Fair Modern Family Exhibition (02013 4450) Aug. 8-17 ...... National Hardware Show Aug. 10-14 ..... International Fisheries Fair Aug. 11-17 International Exhibition of Agriculture and Food Aug. 19-Sept. 4 ... Industry-OMEC Aug. 20-Sept. 20.. Aug. 22-24 ...... Aug. 23-27 ..... International Fair Wellington Home Show
World Woodworking Exposition
Offshore North Sea Technological Conference and Stavanger Aug. 28-29 ...... Exhibition
International Bridge and Structural Engineering Vienna Aug. 30-Sept. 3'... Exhibition

Jewellery, Gold, Silver, Clocks and Gifts Exhibition Paris —BIJORHCA International Autumn Fair (01-486 1951) Sept. 12-21 ...... International Autumn Fair (01-486 1951)
Sept. 18-Sept. 23 . International Exhibition for Automobile, Motor
Car Workshop, Service Station and Garage
Equipment—AUTOMECHANIKA (01-734 0543)

Exhibition Centre, Harrogate

Wembley Conference Centra Kelvin Hall, Glasgow

Dorobiro

Chicago Budapest

Wellington, New Zealand

BUSINESS AND MANAGEMENT CONFERENCES

FT Course: Financial Management for the non-financial executive (01-621 1355) (until July 25) Oyez-IBC: The Language of the Law (01-242 2481) (until July 25) (until July 25)
The Institution of Civil Engineers: Flood Studies
Report—5 years On (01 222 7772)
Online: Microelectronic Applications (09274 28211)
University of Bradford Management Centre: The
Causes and Symptoms of Company Failure
(Bradford 42299)
Bacle: Introduction to Television in Training City University, London July 22-24 ...... July 22-23 ...... July 22-23 ...... (01-636 5351). Compower Training School: Basic COBOL (Cannock 2511) July 28-Aug. 15... Training Officers Programme Bacie: Overseas (01-636 5351) Aug. 3-Oct. 24 ... MSS: Inventory Management and Control
(Worthing 34755)

LCCI: Middle East and North Africa Section "At
Home" (01-248 4444)

British Institute of Management: Effective Speaking—Practice and Coaching using Closed Circuit TV (61-405 3456)
University of Western Ontario: The 1980 International Symposium on Solar Energy Utilization Aug. 10-24 ..... CCC: Practical Introduction to UK Business Law (01-222 6362) MSS: Principles of Work Study and Incentive

Schemes (0903 34755)

Aug. 11-22 CEI: International Financial Management Seminar

Aug. 18-19 The British Institute of International and Comparative Law: Multinational Corporations and the International Law Standard (01-636 5802) FT Conference: Aerospace into the Eighties and Beyond (01-621 1355) BIM: Rapid and Efficient Reading (01-405 3456) Brunel Institute of Organisation and Social Studies: Understanding Production for non-production managers (0895 56461)

Lady Margaret Hall, Oxford University of Manchester Wembley Conference Centre

Cannock, Staffs Cannon St., EC4 Parker Street, WC2

Ontario, Canada Trinity Hall, Cambridge Worthing

Royal Garden Hotel, WS Royal Lancaster Hotel, W2 Parker Street, WC2 Uxbridge

### Financial Times Conferences

THE NEW SRI LANKA - OPPORTUNITIES FOR BUSINESS Colombo - September 4 and 5, 1980

The Hon. Ronnie de Mel, Minister of Finance and Planning, will be giving the opening address for this conference. Men of decision in business who are considering overseas ventures should take this opportunity to hear and discuss the issues with the speakers. The examination of the opportunities, incentives and potential for investment by leading politicians and international business already actively engaged in Sri Lanka may well also persuade others to take seriously the idea of investment or of becoming involved in joint ventures in Sri Lanka.

SPAIN AND THE COMMON MARKET - POLICY AND ALTERNATIVES Madrid — October 8 and 9, 1980

The entry of Spain into the Common Market is an issue still to be determined. This conference gives a unique opportunity for chief executives whose firms are already investing or doing business in Spain to discuss with speakers and delegates the pertinent issues and how business may be affected. The speakers panel is made up from ministers responsible, other leading European politicians and businessmen involved in Spain.

All enquiries should be addressed to: Financial Times Limited Conference Organisation Minster House, Arthur Street London EC4R 9AX

Tel: 01-621 1355 Telex: 27347 FTCONFG Cables: FINCONF LONDON

TANJONG TIN DREDGING LIMITED Extract from the Statement of the Chairman, Mr. J. D. Hellings, O.B.E., F.I.M.M.

As Shareholders are aware. Mr. J. T. Chappel, after a long association with the Company, retired at the time of the last Annual General Meeting. I was elected Chairman, by my colleagues, and Mr. David Ruok of Kuala Lumpur joined the Board at the same time.

Board at the same time.

In the accounts for 1979 the profit for the year amounted to £241,695 before tax compared with £221,199 for 1978. After providing £153,977 for taxation the profit for the year available for distribution was £87.718 (1978—£73,778) out of which dividends totalling £.75p are being paid at a cost of £85,483 leaving £2.235 to be added to the balance unappropriated from previous years.

previous years.

Dredging conditions were similar to those of last year with production marginally higher. However, the cost of scheduled repairs to the bucket ladder was responsible for an increase in working costs. The renewal of the bucket band will have to be considered during the coming months, and in order to absure that the avenue incoming is instiffed.

and in order to ensure that the expense involved is justified, an up-to-date report has been commissioned from the General

Output for the first five months of this year was 1,605; piculs (97 tonnes) compared with 1,170 piculs (707 tonnes) for the same period last year. It must, however, be borne in mind that the dredge is working ground that has been dredged before, which results in an erratic distribution of ore values, and hence wide fluctuations in monthly production results a marked improvement, results for the current year are only likely to be comparable with those of 1978 and 1979.

All formalities connected with the renewal of the mining

leases are being completed and it is anticipated that new

During 1979 the average price received for tin one on the Penang market was M\$1,049.19 per picul, compared with M\$923.40 per picul in 1978, an increase of nearly 14%.

leases will be issued in the near future.

Ground to be worked during the current year will be similar to that treated during the previous year, but of a lower.

# THE NORTHERN GOLDSMITHS **COMPANY LIMITED**

Record profits for enlarged group

Mr. I. D. Wilson, Chairman, reports:

It is my pleasure in my first year of office to report on a year of record profits to which hoth divisions have contributed satisfactorily. This is, of course, the first full year for our enlarged Group which is now engaged in establishing a new organisation structure to meet the challenge of ats increased

The jewellery division has traded successfully with the turnover rising by 17% and the profit before tax by 13%.

Bookmaking Division

The trading figures for the bookmaking division cover eleven months only in order to bring its financial year into line with that of the rest of the Group. During the year we hought the business of Tom Miles, a small but well known Midlands credit betting company, and this is proving to be a very worthwhile addition to this division. Turnover was 24% up on the previous year and pre-tax profit for the eleven months in excess of that of the previous year.

The bookmaking division continues to trade very satisfactorily with both turnover and profit well ahead of budget. Profit-ability is subject to the vagaries of the weather and other circumstances beyond our control, but assuming no such adverse influences, this division should make an increased contribution to Group profit this year.

The current year's tracing for the Jewellery Division on the other hand has started very quietly. It is difficult to see any reason for improvement with the current recession particularly affecting those areas where many of our larger branches are located. However, it is to be hoped that the steps we are currently taking to improve profitability will allow us to get through this period in reasonable shape.

Summary of Results Turnover Profit before tax and extraordinary	1989 £13,195,509	1979 £5,977,518
Taxation Profit after tax	648,230 142,518 505,812	453,218 201,839 251,379
Dividends Retained profit Earnings per share	127,235 274,880 14.89p	80,393 1 <b>44,</b> 383 8.65p

1 Blackett Street, Newcastle upon Tyne NE1 5AU

FINANCE FOR INDUSTRY TERM DEPOSITS

Deposits of £1,000-£50,000 accepted for fixed terms of \$40 years. Interest paid gross, half-yearly. Rates for deposits received not later than 8.8.80. Terms (years) 3 4 5 6 7 3 9 10 Interest % 121 121 121 121 121 121 121 121 121

Deposits to and further information from The Chief Cashier.
Finance for Industry Limited, 91 Waterloo Road, London:
SEI SXP (01-928 7822, Ext. 367). Cheques payable to "Bank"
of England, a/c FFL." FFI is the holding company for KFC.

Amsterdam-Rotterdam Bank N.V.

Algemene Bank Nederland N.V.

**Dresdner Bank** 

Aktiengesellschaft

July 17, 1980.

Citicorp International Group

Offshore Mining Company Limited U.S. \$100,000,000

> **Guaranteed Floating Rate** Notes due 1986

For the six months 21st July, 1980 to 21st January, 1981

in accordance with the provisions of the Notes. notice is hereby given that the rate of interest has been fixed at  $9\frac{1}{12}$  per cent, and that the interest payable on the relevant interest payment date. 21st January, 1981 against Coupon No. 5 will be U.S. \$49.51

By: Morgan Guaranty Trust Company of New York, London Agent Bank

# M. J. H. Nightingale & Co. Limited

27/28 Lovat Lane London EC3R 8EB

Swiss Bank Corporation (Overseas)

Limited

Credit Suisse First Boston

Limited

Kredietbank International Group

Morgan Guaranty Ltd.

ECCO's capitalisato	Company		Change in week	Gross Div (p)	Yield %	P/E
2,136	Airsprung	55	-2	67	12.2	3.3;
660	Armitage and Rhodes	24	-2	3.8	158	1.61
5.32*	Bardon Hill	292	÷Š	19.3	6.6	5.51
750	County Cars 10.7% Pf.	75	_	15.3	20.0	-
6.489	Deborah Ord	34	_	50	5.3	10.3
4.312	Frank Horsell	115	_3	7.9	6.9	3 6t
10.546	Frederick Parker	73	-Ž	11.D	15 1	3 3 <b>†</b>
2,002	George Blass .	94	-ī	16.5	17.6	—t
2,100	Jackson Group	84	+1	6.0	7.1	3.2 <del>1</del>
15,148	James Burrough	117	_	7.9	6.8	9.6
2.507	Robert Jankins		15	31 3	11 C	—t
3 462	Torday .	225	_	15.1	6.7	38
2.831	Twinlock Ord .	134,	4 le	_		
2.075	Tropleck 12% ULS	76		12.0	158	_
6.329	Unilock Heldings	45	- 1	2.6	53	10 4
1.012	Uniteck Holdings New	46	_		_	9.8
11.875	Vialto: Algunder	94	_	44	4.6	62
5,531	W 5 Yeates .	237	<b>∸9</b>	12.1	5.1	3 9t

AHIBITIO

INTERNATIONAL BONDS

BY FRANCIS GHILES!

# A flat feeling after the party

investors appear to have described the secondary market their holidays and only desultory activity continues in

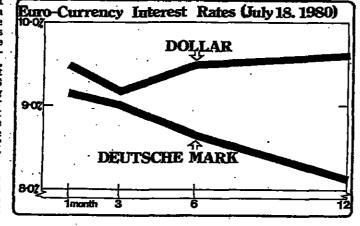
bonds drifted down by about per cent last week in the participants—though not observed and section New and SEC—would view as being York. The U.S. dollar on the tight side for a 15-year strengthened a little against deal. CSFB may also have felt major currencies despite a that its leading position in the per cent last week in the rates. The three-month rate shed & per cent to end the

New issue activity continues, however, both in the dollar and however, both in the dollar and recent weeks that CSFB has the D.Mark sectors. In the first, declined a management position two new floating rate note issues were launched, the \$200m issue for Barclays Bank Inter a £50m FRN issue for Lloyds national (BBI), being the Eurofinance earlier last month largest Eurobond for a UK. The return to the market of borrower. The 17 other banks, Metropolitan Estate and Protogether with BBI, which are perty Corporation, whose issue managing the issue, include a was so well received that it string of London merchant was increased last week by \$5m banks and two of the hig three to \$35m is corporation. string of London merchant was increased last week by \$5m hanks and two of the big three to \$35m is encouraging news Swiss banks—Swiss Bank Cor for other UK property comparation and Union Bank of

turned down the offer of a management position this time round. The reasons for its absence are believed to be wissues. linked with the level of com-Prices of fixed interest dollar missions, which total 2 per cent, a figure which some market participants—though not UBS currencies despite a that its leading position in the easing in EurodoHar FRN sector warranted a more prominent position than that of manager alongside 17 other

This is not the first time in in an issue for a prominent borrower. This happened with panies. Kidder Peabody recalls. Switzerland, in its weekly telex to investors,
A notable absentee is Credit that "only five years ago the
Suisse First Boston, which was reputation of the UK property

institutions



sible to place paper, at any 100 per cent. price. MEPC suffered the The D-Mar ignominy in December 1974 of their face value."

It can be argued, the telex over from foreign ones as the "that the 1974 prices were only typical of the prevailing hysteria at that time." Certainly UK institutions which bought heavily before the turnincluded in the management companies had sunk to a point round are, in some cases, sitting group of the last FRN issue for where it was virtually impos- on book profits which exceed

a muted response. Domestic investors are buy ing foreign D-Mark bonds both

per cent which is very fine for this prolific borrower.

Honeywell Bull came to the

D-Mark sector for the first time

while New Zealand arranged a

placement which, in effect, was a refinancing exercise. A DM 200m issue for Chile, the second

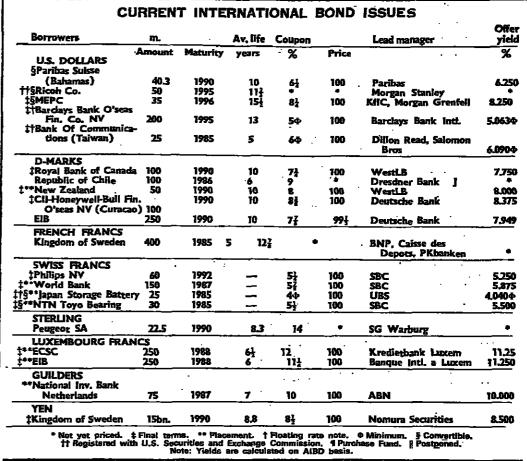
ever for the republic, met with

because they can obtain a higher return than on domest paper and because of a widely expected fall in D-Mark interest rates later this year.
In the Swiss franc sector, a steady flow of new issues con-

tinues with little evidence of trading in seasoned The next borrower is expected to be the Republic of

The French car company Peugeot, is meanwhile tapping the sterling sector for a £22im bond issue through S. G. Wai burg. This is the company second foray into the Eurobone This is the company's market—it arranged a Eurofrench franc issue last yearand the funds are being used to help repay loans extended through Deutsche Bank, leading by the UK Department of a domestic syndicate of banks. Industry in 1976 to Talbot UK Terms include a coupon of 7% formerly Chrysler UK.

BY PETER MONTAGNON



U.S. BONDS

# Fed keeps the market on tenter-hooks

THE MARKET was nervous last it appeared that the Fed had week, trying to figure out whether the Federal Reserve had changed its position on interest rates (it thought probably not, but nobody could be sure). There was also growing concern that the U.S. economy may be pulling out of a recession before deflation has had its full impact. If so, there is a strong chance that inflation will pick up again, and interest rates too.

Bonds put on their best per formance on Wednesday, when

U.S. INTEREST RATES (%) Week to to July 18 July 11 7.94 8.16 8.60 8.70 8.80 8.85 3-month Treas. Bills ... 3-month CDs ...... Federal lunds wkly sv. Treasury 30-year Bonds Long-term AAA utility Long-term AA indust. 11.38 but closed the week without

eased its target for the key Fed funds rate by } per cent to an 8-9 per cent range. The evidence for this—in the form of a Fed markets when rates were rising —was not conclusive, but bond prices shot up all the same. By the end of the week,

though, it was still not clear what the Fed was up to. Some analysts maintained that the central bank had moved to accommodate a market in which interest rates were heading down again anyway, but that muted way, so as to limit the impact on the dollar. Others were less convinced. The market itself ended up feeling neutral:

bonds lost some of their gains

much sense of direction.

the Fed stands could come on Tuesday when Mr. Paul Volcker, the Federal Reserve chairman, is to testify in Congress on current credit policy. Among other things, he could indicate the Fed's targets for money supply growth and interest The market was also un-

Some clarification of where

settled by mounting evidence of a turnaround in demand. The latest industrial production and gross national product figures continue to show an economy in decline. But housing, retail sales it had done so in a deliberately and car sales have all picked up in recent weeks-particularly in the case of housing, where the sales and starts are up by 30 per cent or more. Since these areas all led the economy into recession, it is a fair bet that they will lead it out again.

### **CREDITS**

TOTAL SECTION

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# Yugoslavia chases Arab money

THE National Bank of Yugo- unfortunate move for Yugo- substantially from the \$1.26n servicing of the debt. The slavia is understood to have slavia. Central Bankers meeting launched its large borrowing in Basle earlier this month programme with a \$250m credit reported that they had been being managed by Kuwait asked by Yugoslavia to help Foreign Trade Contracting and negotiate loans from commer-Investment Company. Terms cial banks in excess of \$2bn to have been set at eight years with help finance the country's

This is the same margin as that set in June on a \$107m club deal for three Yugoslav banks under the leadership of Citicorp, although the maturity of the National Bank credit is a year

\$250m from Arab banks, but be too large for a restricted likely that margins for Yugo stantial short-term debt. syndication. The credit is still slavia will have to rise further expected to bear a strongly Arab before the borrowing proflavour but international banks gramme is completed. have been asked to participate as well

ments deficit.

This means that Yugoslavia will have to tap Western banks not seem to have been particularly favourable as these Bankers in London believe banks are sceptical of the problems in many cases. At performance by

could turn out to be a somewhat Venezuela would be raised being taken to ensure prompt quality European borrowings, risk.

originally targetted. The credit is believed to have attracted as its purpose is to consolidate increased to \$600m from \$500m. some \$1bn from the market on some of the debt with a the basis of its split 1-1 spread maturity of up to two years over seven years.

The absolute limit for any increase would be \$1.8bn as three grace and a 11 per cent deteriorating balance of pay- this is the total extent of conauthorisation for longer term Venezuelan borrow- of America, Canadian Imperial ing. A final decision on the Bank of Commerce Credit longer term Venezuelan borrowfor very sizeable amounts over amount will be taken at a Lyonnais, Skandinaviska Ens-

especially satisfying Venezuela in view of problems that the National Bank had in country's economic performance reported recently by many tended to try to raise the whole besides having lending limit banks over the poor repayment Venezu*e*lan that the amount turned out to best it would therefore seem state agencies on their sub-

The problems reached the stage where Sr. Hernan Oyarzabal, Venezuela's Director Among other deals it looked of Public Credit, paid a special at the end of last week as visit to Europe 10 days ago to of Public Credit, paid a special In terms of strategy this though the jumbo credit for reassure banks that action was interest being shown in prime

jumbo loan should help in this France 10-year credit has been incurred by the agencies.

The D-Mark foreign bond

sector continues to absorb a

though it would appear that

domestic investors have taken

main buyers of new paper.
DM 500m worth of new bonds

were announced last week in-

cluding a DM 250m for the EIB

Brazil's telecommunications agency, Telebras, is now studying an offer for a \$150m credit from five major banks: Bank and above the present opera-managers' meeting in London kilda and Sumitomo Bank. The tion. The initial response does The response to the credit is credit with a spread of 13 per for cent and four years grace.

> Although no mandate has yet been formally awarded, the credit is almost certain to emerge on the terms outlined above. The spread is identical to that on Brazil's last major syndication for Eletrobras. which was raised to \$410m from an initial target of \$300m.

As a further indication of the

BONDTRADE INDEX AND YIELD

July 11 ... 93.01 9.78 83.18 10.79 High '80 ... \$3.58 (18/6) 89.19 (2/1) Low '80 ... 86.32 (2/4) 71.54 (29/2)

EUROBOND TURNOVER

No information availableprevious day's price.

† Only one market maker supplied a price, STRAIGHT BONDS: The yield is the yield to redemption of the mid-price; the amount issued is in millions of currency units ex-

cept for Yen bonds where it is in billions. Change on week= Change over price a week earlier. FLOATING RATE NOTES: Denominated in dollars unless

CONVERTIBLE BONDS: De nominated in dollars unless otherwise indicated. Chg. day= Change on day. Cnv. date=First

date for conversion into shares. Cnv. price=Nominal amount of

bond per share expressed in currency of share at conversion rate fixed at Issue. Prem=Percentage premium of the current effective price of acquiring shares via the bond over the

most recent price of the shares.

otherwise indicated. shown is minimum. C.dte = Date next coupon becomes effective Spread=Margin above six-month offered rate (‡ three-month § above mean rate) for U.S dollars. C.cpn = The current coupon. C.yld=The current yield.

92.72 9.88 82.84 10.89

Cadel

3,583.7

471.3 627.3 This is a club credit over 10 years with a margin of 0.35 per cent for the first five years rising to 0.45 per cent thereafter. It was possible to increase the amount even despite the very low spreads and the com-plete absence of Japanese institutions from the deal. The latter were denied permission to participate by the Japanese Ministry of Finance because of the standby element to the loan. Authorisation to participate in standby credits is not normally forthcoming. Another operation expected

to attract fine terms is a DM 200m borrowing by Ireland's Industrial Credit Company. The mandate had not been formally awarded by the end of last week, but the deal is already being followed closely because of Ireland's high status as a credit

### FT INTERNATIONAL BOND SERVICE

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CECA 11% 90	<b>50</b> '	99	994	. 0	-04	11.73
CECA 115 90	100	100		+0%		
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Con. Illinois O/S 94 86	150	94	947	-04	-14 °	11.12
Denmerk 113, 90	100	98%	99%	—04s	-14	11.91
Dome Petroleum 13½ 92	50 .	1034	1031	+04	-야~	12.88
EEC 11 -95	-75 -	951,	964	-64	-012	11.56
EIB 114 92	80	977-2	98	-0-	-14	12.09
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FST. Cari. Inv. 10 84 CS GMAC 12 85 CS R. Bk. Canada 10 85 CS R. Bk. St. Canada 10 84 CS R. Bk. Canada 10 85 CS R. Bk. St. Canada 10 85 CS R. Bk. St. Canada 10 84 CS R. Bk. St. Canada 10 85 CS R. Bk. St. Canad	50-0-0 Dec 441 80 4	DU	257 20	7 707 702 11.81
GMAC 12 85 CS	For Car law 10 01	-3 00	. 20.8 21.	9 0 -05 12.07
R. Bk. Canada 10 86 CS  Tordom Cpn. 13½ 85 CS  M. Bk. Damk. 9 91 EUA  SOFTE 8½ 83 EUA  U. Bk. Nrwy. 9½ 90 EUA  Algemene Bk. 8½ 84 FI  Algemene Bk. 8½ 84 FI  Ned. Gasunis 8½ 84 FI  Ned. Middbk. 8½ 84 FI  Norway 8½ 85 FFr  100 \$96, \$77, \$04, \$02, \$02, \$02, \$04, \$04, \$03, \$02, \$04, \$04, \$04, \$04, \$04, \$04, \$04, \$04				
Tordom Cpn. 13 <sup>1</sup> , 25 CS  M. Bk. Drimk. 9 91 EUA  SOFTE 8 <sup>1</sup> , 88 EUA			Laa-e aa	4 +U2 +U2 12.13
M. Bk. Drimk. 9 91 EUA 25				
SOFTE 84, 85 EUA			103.5 104	U -04 12.39
U. Bk. Nrwy. By 90 EUA Algemene Bk. 104, 87 Fl Algemene Bk. 104, 87 Fl Ned. Middbk. 84 sk Fr Nonway 84, 84 Fl Mir France 11 84 FFr Island 11 8				
Algemene Bk. 104, 87 FI Algemene Bk. 104, 87 FI Algemene Bk. 104, 87 FI Ned. Gasunie 84, 84 FI Ned. Middbk. 84, 84 FI Nonraya 84, 84 FI Nonraya 84, 84 FI Nonraya 87, 84 FI Norraya 84, 85 FFr Norraya 84, 86 FFr Norraya 84, 87 FFr Norraya 84, 86 FFr Norraya 84, 87 FFr Norraya 84, 87 FFr Norraya 84, 87 FFr Norraya 85, 86 FFr Norraya 86 F	SUFIE DE DE EUA	40		
Algemene Bl. 10% 87 FI 400 100% 101% 0 +0% 10.04 Ned. Middbk. 8% 84 FI 75 96% 97% 10.04 +0% 10.04 Phillps Lemps 8% 84 FI 75 96% 97% 10.04 +0% 10.05 Phillps Lemps 8% 84 FI 75 96% 97% 10.04 +0% 10.05 Phillps Lemps 8% 84 FI 75 96% 97% 10.04 +0% 10.05 Phillps Lemps 8% 84 FI 75 96% 97% 10.04 +0% 10.05 Phillps Lemps 8% 84 FI 75 96% 97% 10.04 +0% 10.05 Phillps Lemps 8% 84 FI 75 96% 97 0 +0% 10.05 Phillps 11% 98 FF 10.05 Phillps 11% 98 Phillps 1				
Ned. Middbk. 8 <sup>1</sup> / <sub>4</sub> 84 FI Nonway 8 <sup>1</sup> / <sub>4</sub> 85 FI Nonway 8 <sup>1</sup> / <sub>4</sub> 87 FI Nonway 8 <sup>1</sup> / <sub>4</sub> 88 FI Nonway 8 <sup>1</sup> / <sub>4</sub>	Algemene Bk. 84 84	75		
Med. Middbk. St. 84 F1   75   983, 971, +01, +02, 9.22     Norway St. 84 F1   100   983, 974, +01, +02, 9.22     Air France 11 84 FFr   120   967, 971   0 +01, 12.05     Euratum 92, 87 FFr   150   160, 107   0 +01, 12.05     Euratum 92, 87 FFr   150   857, 962, 0   0 +02, 12.51     Finland 11 34 FFr   150   857, 963, 0   0 +02, 12.51     Finland 11 34 FFr   150   857, 963, 0   0 +02, 12.36     Finland 11 34 FFr   150   857, 963, 0   0 +02, 12.36     Finland 11 34 FFr   150   857, 963, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   857, 953, 0   0 +02, 12.36     Finland 11 34 FFr   120   857, 953, 0   0 +02, 12.36     Finland 11 34 FFr   120   857, 953, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 11 34 FFr   120   945, 950, 0   0 +02, 12.36     Finland 12				
Norway 8% 84 FI				
Philips Lamps 89, 84 Fi 75 Air France 11 84 FFr				
Air France 11 84 FFr				
CECA 144, 86 FFr				
Euratom 94, 87 FFF				
Finland 11 84 FFr				0 +01 12.51
Finland 11½ 85 FFr	Euratom 94.87 FFr		89-2 80-	2 0 0 12.93
Gaz de France 11 84 FFr 150 945, 953, 0 0 12.54 181				
18M France 117, 84 FFr   120   97% 98% 0 +01, 12.36   Renault 92, 65 FFr   100   88% 87% 0 -01, 13.42   Sant-Gobsin 92, 85 FFr   125   885, 863, 0 -02, 13.42   Sant-Gobsin 92, 85 FFr   125   885, 863, 0 -03, 13.42   Sant-Gobsin 92, 85 FFr   125   885, 863, 0 -03, 13.42   Sant-Gobsin 92, 85 FFr   125   885, 863, 0 -03, 13.42   Sant-Gobsin 92, 85 FFr   125   101, 1011, 1012, 1022, 103, 1011, 1011, 102, 1022, 103, 1011, 1011, 1012, 1023, 103, 1011, 1011, 1013, 103, 102, 103, 1011, 1011, 1013, 103, 103, 1011, 1011, 1013, 103, 10			934 94	0 +04 12.69
Renault 92, 85 FFr	Gaz de France 11 84 7			
Saint-Gobsin 94, 86-FFr 130 865, 864, 0 + 04, 13.18 Solvay at Cie 94, 87 FFr 125 844, 854, 0 - 04, 13.22 8eneficial Fin. 144, 90 £ 0117, 1024, + 04, + 04, 14.13.20 £ 1017, 1024, + 04, + 14.13.20 £ 1017, 1024, + 04, + 14.13.20 £ 1017, 1018, + 14.13.20 £ 1017, 1018, + 14.13.20 £ 1017, 1018, + 14.13.20 £ 1017, 1018, + 14.13.20 £ 1017, 1018, + 14.13.20 £ 1017, 1018, + 14.13.20 £ 1017, 1018, + 14.13.20 £ 1017, 1018, + 14.13.20 £ 1017, 1018, + 14.13.20 £ 1017, 1018, + 14.13.20 £ 1018, + 14.13.20 £ 1018, + 14.13.20 £ 1018, + 14.13.20 £ 1018, + 14.13.20 £ 1018				
Solvay at Cie 93, 87 FFT 125  Beneficial Fin. 144, 90 £ 20 Citicorp O/S 132, 90 £ 50 El8 111, 91 £	Renault 92, 65 FFF		801 8/1	U -U13.42
Beneficial Fin. 144, 90 £ 20 1017, 1027, +03, +03, 13.82 (Citicorp O/S 137, 90 £ 50 £ 1811, 91 £	Saint-Goosin 34 60 Fi		007 001	0 -01 13.18
Citicorp O/S 13 <sup>2</sup> 90 £ 50 101 <sup>1</sup> 101 <sup>1</sup> + 0 <sup>2</sup> + 1 <sup>1</sup> 13.20 16 11 <sup>1</sup> 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Solvay at Cie-35 of Fi			101 107 10 00
EIB 111, 91 £				
Fin. for Ind. 12% 89 £ 30 98% 98% +0% +2% 12.81 Fin. for Ind. 14% 88 £ 20 104% 104% +0% +1% 13.47 Gen. Elec. Co. 12% 88 £ 20 106% +0% +1% 13.47 Swed. Ex. Cr. 15% 85 £ 20 106 106% +0% +1% 13.30 Fin. 106 106% +0% 10% 106 106% +0% 10% 106% Fin. 106 106% +0% 10% 10% 10% 10% 10% 10% 10% 10% 10% 1	Citicorp U/S 13-2 SU		מיון הועון	1 702 715 13.20
Fin. for Ind. 142 88 £ 2D. 1041, 1041, +041, +12, 13.47 Gen. Elec. Co. 121, 88 £ 50 Say. 931, +041, +12, 12.54 Swed. Ex. Cr. 151, 88 £ 2D. 106 1063, +041, +13, 13.30 GCCE 81, 91 KD	EID 117 31 E			
Gen. Elec. Co. 12 <sup>1</sup> <sub>2</sub> 85 £ 50 Swed. Ex. Cr. 15 <sup>2</sup> <sub>4</sub> 85 £ 20 Bamobras 8 <sup>2</sup> <sub>8</sub> 90 KD 7 CCCE 8 <sup>2</sup> <sub>7</sub> 91 KD	Fin. for ind. 122 89		2041 4041	1 TUN TZ% 1281
Swed. Ex. Cr. 15½ 85 £ 20 106 1063, +07; +13; 13.30 8anobras 84, 90 KD 7 1947; 95½ 0 0 9.01 CCCE 84, 91 KD 110 1927; 83½ 0 0 9.15 Mitsubishi 7½ 84 KD 110 1943; 83½ 0 0 9.15 Sonatrach 8½ 90 KD 112 194½, 94½ 0 0 9.37 Akzo 9½ 87 LuxFr 1500 84½, 94½ 0 0 9.37 Akzo 9½ 87 LuxFr 1500 84½, 95½ 0 0 9.71 10.11 Euratom 9½ 88 LuxFr 1500 98½, 95½ 0 0 9.97 EIB 9½, 88 LuxFr 1500 98½, 95½ 0 0 9.97 EIB 9½, 88 LuxFr 1500 98½, 95½ 0 0 9.97 EIB 9½, 87 LuxFr 1500 98½, 95½ 0 0 9.97 10.43 PLOATING RATE			10974 1097 003 007	1 TUN T12 13.47
Bemobras 84 90 KD 7 1947, 953, 0 0 9.01  CCCE 84 91 KD 10 1224, 933, 0 0 9.15  Mitsubishi 74 24 KD 10 1924, 933, 0 0 9.15  Sonatrach 84 90 KD 12 1944, 945, 0 0 9.37  Akzo 94 87 Luxfr 500  Euratom 84 81 Luxfr 500  Euratom 84 82 Luxfr 500  Euratom 84 83 Luxfr 500  Euratom 94 83 Luxfr 500  S84 954 9 0 9.57  EIB 94 83 Luxfr 500  97 97 04 09, 10.43  FLOATING RATE				
CCCE 89, 91 KD				
Mitsubishi 7½ 84 KO 10 1943, 94% 0 +2 9.15 Sonatrach 8½ 90 KO 12 1943, 94% 0 0 9.37 Altzo 9½ 87 LuxFr 500 94%, 95% - 00% - 00% 10.21 Euratom 8 87 LuxFr 500 88½ 90% 0 -00% 10.21 Euratom 9% 88 LuxFr 500 98%, 95% 0 0 9.97 EIB 9% 88 LuxFr 600 97%, 98% - 00% 0 10.07 Volvo 9% 87 LuxFr 500 95 97 - 0% - 0% 10.43  FLOATING RATE			1341 323	0 0 2.01
Sonatrach 8'2 90 KD 12 194'3 94'3 0 0 9.37  Akzo 9'4 87 Luxfr 500 94'3 95'4 -0'4 -0'3 10.21  Euratom 8'4 88 Luxfr 500 89'4 90'3 0 -0'5 10.11  Euratom 9'4 88 Luxfr 500 98'4 98'4 0 0 9.97  EIB 9'4 88 Luxfr 600 97'4 98'4 -0'5 0 10.07  Volvo 9'4 87 Luxfr 500 96 97 -0'4 -0'4 10.43	RAISEANNISH 71 PA YO		102'S 23'	
Akzo 9- 87 LuxFr 500 9-8, 95% -0% -0% 10.21 Euratom 8 87 LuxFr 500 89-2 90-2 0 -0% 10.21 Euratom 8 88 LuxFr 500 98-3 99-3 0 -0% 10.27 EIB 9-8 88 LuxFr 600 97-3 98-3 -0% 0 10.07 Volvo 9-3 87 LuxFr 500 96 97 -0% -0% 10.43	Mithorial 12 of KD			
Eurotom 8 87 LuxFr 500 892 902 0 -02, 10.11 Eurotom 94 88 LuxFr 500 984 994 0 0 9.97 EIB 94 88 LuxFr 600 974 984 -04 0 10.07 Volvo 93 87 LuxFr 500 95 97 -04 -04 10.43  FLOATING RATE	ALTO DE 27 INVÉT	500	DATE OFF	
EUTRIOM 9% 88 Luxfr 500 98% 99% 9 0 9.57 EIB 9% 88 Luxfr 600 97% 98% -0% 0 10.07 Volvo 9% 87 Luxfr 500 96 97 -0% -0% 10.43	European & 87 luves			
EIB 94, 88 LuxFr 600 974, 984, -01, 0 10.07 Volvo 93, 87 LuxFr 500 96 97 -01, -01, 10.43	Eireanen GS. AR (HVFr	500		
Volvo 93, 87 LuxFr 500 96 97 -04 -04 10.43				
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FLOATING RATE Spread Bid (	Offer C.dta C.cpn C.yid
Altied Irish Bk. 54, 87 04, 93 Bank of Ireland 54, 89 404, 98 Bank of Tokyo 54, 89 404, 974 Barcloys O/S Inv. 5 90 04, 974 Bilibao, Int. NV 54, 90 04, 964 Cricorp O/S F. 83 540 984 Cricorp O/S F. 84 40 984 Cricorp O/S F. 84 40 984 Cricorp O/S F. 84 40 984 Craditanstalt 572 91 9204 Craditanstalt 572 91 9204 Craditanstalt 572 91 9204 Ind. Bank Japan 54, 87 904 Ind. Bank Japan 54, 87 904 Ind. Bank Japan 54, 87 91 ITCB Japan 54, 88 94 404 ITCB Japan 54, 88 94 404 ITCB Japan 57, 88 94 404 ITCB Japan 57, 88 94 404 ITCB Japan 57, 88 97 Miss. Han. O/S 54, 94 404 Nat. West. 54, 94 Nat. West. 57, 94 Nat. 984 Soc. C. de Bque. 64, 87 Sogenal 54, 88 Soc. C. de Bque. 64, 87 Standard Chart. 54, 90 Swaden 84, 91 Williams & Glyn 54, 91 O4, 957	981, 2/1 10.44 10.62 983, 21/8 11.81 12.02 987, 25/10 18.55 16.97 983, 13/12 93, 9.83 977, 29/8 10 10.22 987, 29/11 10.06 10.35 983, 13/1 94, 9.77 983, 13/1 9,41 19.49 983, 13/1 9,44 19.49 984, 13/1 11.44 19.49 977, 14/9 9.44 9.70 1011, 16/10 18/1 18/1 18/1 18/1 19/1 19/1 19/1 19/1

uziliama & Chm 5L 9	\$0% 96% 97% 18/10 18% 19.23 1 0% 99% 100% 14/9 18% 18.48 5 0% 192 82% 18/12 6% 6.64
Average price chan	ges on day 0 on week 0
CONVERTIBLE BONDS	Cnv. Cnv. Chg. date price Bid Offer day Prem
Ajinomato 74, 95	.10/79 145 1120 121 0 -9.23 1 2/80 615.5 114 115 +0% -0.43 1 1/80 40 93½ 94% +0% 28.15
Apache I. Fin. 8% 95 Apache Optical 7 94	.12/80 21.12
Credit Suisse 44 93	8/79 570 1083, 1087, -04, -0.57 10/79 1278 1065, 108 +17, -2.44 11/78 927.3 574, 582, 0 18.58 4/80 224 1092, 1105, -04, 13.58
Enserch Fin. 92 94	3/6012.22 112 1134 +34 0.97 . 7/8030.25 127 128 +22 - 0.86 12/79 210 1034 1044 0 8.16
Mitsubishi Cp. 612 94 Nippon Saiko 74 94 Toshiba Cpp. 73 96	10/79 549.1   122   123½ - 0¾   4.18   12/79   339   111½   112½ - 0½   9.23   10/79   198   101¼   102¼   0   6.64
Union Bk, Switz, 5 89 Fujitsu 5 84 DM Kansai Elec, 4 84 DM	2/80121,4 98 994 +05 5.35 7/78 475 1005 1015 +04 4.70 4/79 1210 -874 884 -05 37.30
Uny Co. 8-2 85 DM	9/80 595 1013 102 0 14.27 11/79 1071 98 383 +04 25.36
· <del></del>	·

· Bell Canada 10% 86 CS	60	95½ 95¾	0 +01 11.67
CIDC 131 DE CO			
CIBC 13 85 CS	50	1034, 1047,	0 -04 12.32
CIBC 113-85 CS	60	985, 991,	+04 +02 11.81
Endered Day 111 Rd Co		. 007 071	0 01 40 2
Federal Day. 112, 50 CS	60	967, 974	0 -04 12.01
Fat. Can, Inv. 10 84 CS	50	94 947-	0 -0, 11.93
GMAC 12 85 CS	50	1994 994	+0'2 +0'2 12.13
DISTRIBUTE OF		1224 324	TV2 TV2 12.13
R. Bk. Canada 10 86 C\$	40	943, 95%	+0" +0" 11.20
Tordom Cpn. 1312 85 CS	30	1031, 104	0 -04 12.39
		200 7 12-1	0 07 IZ.33
M. Bk. Drmk. 9 91 EUA	- 25	931, 947,	-04 -04 9.89
SOFTE 84 89 EUA	40	874 884	0 +0% 10.44
U. Bk. Nrwy. 95 90 EUA	18		
U. DR. 1117, 37 30 FUA		973, 983,	0 -0, 9.77
· Algemene Bk. 84 84 Fi	75	983, 967,	~01g +01g 9.25
Algemene BL 10L 87 FI	400	100% 101%	0 +04 10,04
Mad Cannaia Ot 67 F			100 100 000
Ned. Gasunie 81, 84 Fl	50	1001, 101	+01 +01 8.51
Ned. Middbk. 84 84 Fl	75	961, 971,	+01 +01 9.22
Nomine 91. 94 El	100		
Norway 84 84 FI		962, 973,	0 +04 9.12
Philips Lamps 89, 84 FI	75	967, <i>9</i> 7%	+0" +0" 9.22
Air France 11 84 FFr	120	964 97	0 +07, 12.05
ATCA 1/1 /OC EC-	150	4001 -4	0 10 12 12
CECA 144 /86 FFr			0 +0% 12.51
Euratom 94.87 FF:	150	857, 863	. 0 1243
	200	951, 957,	.0 +0% 12.39
Finland 11 84 FFF			.u Tur 12.39
Finland 112 89 FFr	30	934 94	0 +04 12. <del>60</del>
Gaz de France 11 84 FFr	150	QAL UKL	∩ A 12 E4
147 6* CE-	120		6 / 51 / 62
IBM France 117 84 FFr		977, 98%	0 +01, 12.36
Benevilt 93. 85 FFr	100		
Saint-Gobsin 94 86 FFr	130	OC1 067.	U TU 13 10
Gamir Gonem et an		867, 867	0 +04 13.19 0 +04 13.22
Solvay at Cie_93 87 FFF	125	84% 85%	0 -04 13.22
Beneficial Fin. 144, 90 £ Citicorp O/S 134, 90 £	20	1017, 1071	+0% +0% 13.82
Older 0/6 121 00 0	50	1041 4045	101 11 10 00
Cincalb 0/2 192 80 F		ולוטו ביוטו	+01 +11 13.20
FIR 114 91 £	25	96 <sup>7</sup> e 96 <sup>7</sup> e	+012 +3 12.09
Fin. for Ind. 12 89 £	30		+04 +24 12.81
FIR 101 1110, 16-3 00 4	20		100 141 40 -
Fin. for Ind. 142 88 £	20,	1041, 1043,	+0¾ +1½ 13.47
Gen. Elec. Co. 124 89 E	50	993, 997,	+03 +13 12 54
Gen. Elec. Co. 121, 89 E		997, 997 <u>,</u>	+0% +1% 12.54
Gen. Elec. Co. 12 89 E Swed. Ex. Cr. 15 85 E	20	997, 997, 106 106%	+0% +1% 12.54 +0% +1% 13.30
Gen. Elec. Co. 1212 89 £ Swed. Ex. Cr. 157a 85 £ Banobras 87a 90 KD	20 7	997, 997, 106 1063, 1947, 953,	+0% +1½ 12.54 +0% +1% 13.30 0 0 9.01
RATIONIS AL MU RU	20	997, 997, 106 1063, 1947, 953,	+0% +1½ 12.54 +0% +1% 13.30 0 0 9.01
RATIONIS AL MU RU	20 7 10	994, 99% 106 1064, 1944, 954 1924, 834	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15
CCCE 84 91 KD	20 7 10 10	994, 99%, 106 1064, 1947, 954, 1927, 934, 1944, 947,	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15
CCCE 84 91 KD	20 7 10	994, 99%, 106 1064, 1947, 954, 1927, 934, 1944, 947,	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15
CCCE 8 91 KD Mitsubishi 72 84 KD Sonatrach 82 90 KD	20 7 10 10 12	991, 991, 106 1061, 1941, 951, 1921, 931, 1941, 941,	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37
CCCE 8½ 91 KD Mitsubishi 7½ 84 KD Sonatrach 8½ 90 KD Atzo 9½ 87 Luxfr	20 7 10 10 12 500	59% 59% 106 106% 194% 55% 192% 83% 194% 54% 194% 54%	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0% -0% 10.21
Bandoras 94 90 KD CCCE 94 91 KD Mitsubishi 74 84 KD Sonstrach 84 90 KD Akzo 94 87 LuxFr Euratom 8 87 LuxFr	20 7 10 10 12 500 500	994, 994, 106 1064, 1944, 954, 1924, 934, 1944, 944, 944, 955, 884, 905,	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 8.37 -0% -0% 10.21 0 -0% 70.11
Bandoras 94 90 KD CCCE 94 91 KD Mitsubishi 74 84 KD Sonstrach 84 90 KD Akzo 94 87 LuxFr Euratom 8 87 LuxFr	20 7 10 10 12 500 500	994, 994, 106 1064, 1944, 954, 1924, 934, 1944, 944, 944, 955, 884, 905,	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 8.37 -0% -0% 10.21 0 -0% 70.11
Bandbras 84 90 KD CCCE 84 91 KD Mitsubishi 74 84 KD Sonatrach 84 90 KD Akzo 94 87 Luxfr Euratom 8 87 Luxfr Euratom 94 88 Luxfr	20 7 10 10 12 500 500	994, 994, 106 1064, 1947, 954, 1924, 944, 1944, 944, 944, 955, 894, 954, 984, 964,	+0% +1% 12.54 +0% +1% 13.30 0 0 9.15 0 0 9.15 0 +2 9.16 0 0 8.37 -0% -0% 10.11 0 0 9.57
Bandoras 94 91 KD	20 7 10 10 12 500 500 500	99% 99% 106% 106% 106% 106% 195% 195% 195% 194% 94% 194% 94% 196% 196% 196% 196% 196% 196% 196% 196	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0% -0% 10.21 0 -0% 10.11 9 0 9.97 -0% 0 10.07
Bandoras 94 91 KD	20 7 10 10 12 500 500	99% 99% 106% 106% 106% 106% 195% 195% 195% 194% 94% 194% 94% 196% 196% 196% 196% 196% 196% 196% 196	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0% -0% 10.21 0 -0% 10.11 9 0 9.97 -0% 0 10.07
Bandbras 84 90 KD CCCE 84 91 KD Mitsubishi 74 84 KD Sonatrach 84 90 KD Akzo 94 87 Luxfr Euratom 8 87 Luxfr Euratom 94 88 Luxfr	20 7 10 10 12 500 500 500	99% 99% 106% 106% 106% 106% 195% 195% 195% 194% 94% 194% 94% 196% 196% 196% 196% 196% 196% 196% 196	+0% +1% 12.54 +0% +1% 13.30 0 0 9.15 0 0 9.15 0 +2 9.16 0 0 8.37 -0% -0% 10.11 0 0 9.57
Bandoras 94 91 KD	20 7 10 10 12 500 500 500	99% 99% 106% 106% 106% 106% 195% 195% 195% 194% 94% 194% 94% 196% 196% 196% 196% 196% 196% 196% 196	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0% -0% 10.21 0 -0% 10.11 9 0 9.97 -0% 0 10.07
Bandoras 94 91 KD	20 7 10 10 12 500 500 500	991, 991, 106 1061, 1941, 951, 1921, 941, 1941, 941, 941, 951, 891, 901, 971, 981,	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0% -0% 10.21 0 -0% 10.11 9 0 9.97 -0% 0 10.07
Bandoras 9- 91 KD	20 7 10 10 12 500 500 500	991, 991, 106 1061, 1941, 951, 1921, 941, 1941, 941, 941, 951, 891, 901, 971, 981,	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0% -0% 10.21 0 -0% 10.11 9 0 9.97 -0% 0 10.07
Bandoras 9-4 90 KD  CCCE 9-91 KD  Mitsubishi 7-1 84 KD  Sonatrach 8-2 90 KD  Akzo 9-4 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9-4 88 Luxfr  EIB 9-4 88 Luxfr  Volvo 9-2 87 Luxfr  FLOATING RATE	20 7 10 10 12 500 500 600 500	99°, 93°, 106° 106°, 194°, 95°, 192°, 93°, 194°, 94°, 194°, 94°, 94°, 95°, 89°, 90°, 98°, 98°, 97°, 98°,	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>4</sub> 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 8.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>5</sub> 10.21 0 0 9.97 -0 <sup>1</sup> <sub>5</sub> 0 10.07 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>4</sub> 10.43
Bandoras 9-4 90 KD  CCCE 9-91 KD  Mitsubishi 7-1 84 KD  Sonatrach 8-2 90 KD  Akzo 9-4 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9-4 88 Luxfr  EIB 9-4 88 Luxfr  Volvo 9-2 87 Luxfr  FLOATING RATE	20 7 10 10 12 500 500 600 500	99°, 93°, 106° 106°, 194°, 95°, 192°, 93°, 194°, 94°, 194°, 94°, 94°, 95°, 89°, 90°, 98°, 98°, 97°, 98°,	+0% +1% 12.54 +0% +1% 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0% -0% 10.21 0 -0% 10.11 9 0 9.97 -0% 0 10.07
Bandoras 9- 90 KD  CCCE 9- 91 KD  Mitsubishi 7-2 84 KD  Sonatrach 8-2 90 KD  Akzo 9-2 87 Luxfr  Euratom 8-8 T Luxfr  Euratom 9-8 88 Luxfr  Volvo 9-2 87 Luxfr  PLOATING RATE  NOTES  Sp	20 7 10 10 12 500 500 600 500	997, 997, 106, 1063, 1061, 1061, 1063, 106	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>4</sub> 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 8.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 0 9.97 -0 <sup>1</sup> <sub>5</sub> 0 10.07 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>4</sub> 10.43 dta C.cpn C.yid
CCCE 9, 91 KD	20 7 10 10 12 500 500 500 500 600 500	991, 991, 106, 1061, 106	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>3</sup> <sub>4</sub> 13.30 0 0 9.01 0 7 9.15 0 +2 9.15 0 0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>3</sup> <sub>4</sub> 10.21 0 0 0 9.57 -0 <sup>1</sup> <sub>4</sub> 0 10.43 dta C.cpn C.yid
Bandoras 94 90 KD  Mitaubishi 74 84 KD  Mitaubishi 74 84 KD  Sonatrach 84 90 KD  Akzo 94 87 Luxfr  Euratom 94 88 Luxfr  Eils 94 88 Luxfr  Volvo 94 87 Luxfr  FLOATING RATE  NOTES  Bank of Ireland 54 89	20 7 10 10 12 500 500 600 500	991, 991, 106, 1061, 106	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>3</sup> <sub>4</sub> 13.30 0 0 9.01 0 7 9.15 0 +2 9.15 0 0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>3</sup> <sub>4</sub> 10.21 0 0 0 9.57 -0 <sup>1</sup> <sub>4</sub> 0 10.43 dta C.cpn C.yid
Bandoras 94 90 KD  Mitaubishi 74 84 KD  Mitaubishi 74 84 KD  Sonatrach 84 90 KD  Akzo 94 87 Luxfr  Euratom 94 88 Luxfr  Eils 94 88 Luxfr  Volvo 94 87 Luxfr  FLOATING RATE  NOTES  Bank of Ireland 54 89	20 7 10 10 12 500 500 600 500	991, 991, 106, 1061, 106	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>3</sup> <sub>4</sub> 13.30 0 0 9.01 0 7 9.15 0 +2 9.15 0 0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>3</sup> <sub>4</sub> 10.21 0 0 0 9.57 -0 <sup>1</sup> <sub>4</sub> 0 10.43 dta C.cpn C.yid
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Sonatrach 8- 90 KD  Akzo 9- 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9- 88 Luxfr  Eiß 9- 88 Luxfr  Volvo 9- 87 Luxfr  PLOATING RATE  NOTES  Allied Irish Bk. 9- 87  Bank of Ireland 5- 89  Bank of Tokyo 9- 89	20 7 10 10 12 500 500 500 500 500	997, 997, 106 1063, 106 1063, 1061,	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>4</sub> 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>2</sub> 10.21 0 -0 <sup>1</sup> <sub>3</sub> 10.31 0 0 9.97 -0 <sup>1</sup> <sub>4</sub> 0 10.43 dta C.cpn C.yid /1 10.44 10.62 /8 11.81 12.02 /10 18.85 16.97
Bandoras 9-, 91 KD	20 7 10 10 10 500 500 500 500 500 500	991, 991, 106 1063, 106 1063, 1061 1063, 1061, 1	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>3</sup> <sub>4</sub> 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>3</sup> <sub>4</sub> 10.21 0 -0 <sup>3</sup> <sub>4</sub> 10.11 0 0 9.57 -0 <sup>3</sup> <sub>4</sub> 0 10.43 dta C.cpn C.yid /1 10.44 10.62 /8 11.81 12.02 /10 18.56 16.97 /12 9 <sup>3</sup> 9.83
Bantoras 94 91 KD  CCCE 94 91 KD  Mitsubishi 74 84 KD  Sonatrach 84 90 KD  Akzo 94 87 LuxFr  Euratom 8 87 LuxFr  Eigh 94 88 LuxFr  Eiß 94 88 LuxFr  FLOATING RATE  NOTES  Atled Irish Bk. 54 87.  Bank of Tokyo 54 89.  Barcioys O/S Inv. 5 90  Barcioys O/S Inv. 5 90  Barcioys O/S Inv. 5 90  Barcioys Bk. A/S 6 89.	20 7 10 10 500 500 500 500 500 500 500 500	991, 991, 106, 1061, 106	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>3</sup> <sub>4</sub> 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>3</sup> <sub>4</sub> 10.21 0 -0 <sup>3</sup> <sub>4</sub> 10.11 0 0 9.57 -0 <sup>3</sup> <sub>4</sub> 0 10.43 dta C.cpn C.yid /1 10.44 10.62 /8 11.81 12.02 /10 18.56 16.97 /12 9 <sup>3</sup> 9.83
Bantoras 94 91 KD  CCCE 94 91 KD  Mitsubishi 74 84 KD  Sonatrach 84 90 KD  Akzo 94 87 LuxFr  Euratom 8 87 LuxFr  Eigh 94 88 LuxFr  Eiß 94 88 LuxFr  FLOATING RATE  NOTES  Atled Irish Bk. 54 87.  Bank of Tokyo 54 89.  Barcioys O/S Inv. 5 90  Barcioys O/S Inv. 5 90  Barcioys O/S Inv. 5 90  Barcioys Bk. A/S 6 89.	20 7 10 10 500 500 500 500 500 500 500 500	991, 991, 106, 1061, 106	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>2</sup> <sub>4</sub> 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 8.37 -0 <sup>2</sup> <sub>4</sub> -0 <sup>2</sup> <sub>4</sub> 10.21 0 -0 <sup>2</sup> <sub>5</sub> 10.21 0 0 9.57 -0 <sup>2</sup> <sub>4</sub> -0 <sup>2</sup> <sub>4</sub> 10.43 dts C.cpn C.yid /1 10.44 10.62 /1 10.45 16.97 /12 9 <sup>2</sup> <sub>4</sub> 9.33 /8 10. 10.22
Bantoras 94 91 KD  CCCE 94 91 KD  Mitsubishi 74 84 KD  Sonatrach 84 90 KD  Akzo 94 87 LuxFr  Euratom 8 87 LuxFr  Eigh 94 88 LuxFr  Eiß 94 88 LuxFr  FLOATING RATE  NOTES  Atled Irish Bk. 54 87.  Bank of Tokyo 54 89.  Barcioys O/S Inv. 5 90  Barcioys O/S Inv. 5 90  Barcioys O/S Inv. 5 90  Barcioys Bk. A/S 6 89.	20 7 10 10 500 500 500 500 500 500 500 500	991, 993, 106 1063, 1947, 951, 1947, 943, 1944, 947, 1947, 967, 1947, 967, 1947, 967, 1947, 967, 1947, 967, 1947,	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>4</sub> 13.30 0 0 9.01 0 19.15 0 +2 9.15 0 0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>2</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.11 0 0 9.97 -0 <sup>1</sup> <sub>4</sub> 0 10.07 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>4</sub> 10.43 dta C.cpn C.yid /1 10.44 10.62 /8 11.81 12.02 /10 18.55 16.97 /12 9 <sup>1</sup> <sub>5</sub> 9.83 /8 10 10.28 /11 10.08 10.35
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Sonatrach 8- 90 KD  Akzo 9- 87 LuxFr  Euratom 8 87 LuxFr  Eigh 9- 88 LuxFr  Eigh 9- 88 LuxFr  Volvo 9- 87 LuxFr  FLOATING RATE  NOTES  Atlied Irish Bk. 5- 87  Bank of Tokyo 5- 89  Barcioys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilibao Int. NV 5- 80  Bilibao Int. NV 5- 80	20 77 10 12 500 500 500 500 600 500	991, 993, 106 1063, 1947, 951, 1947, 943, 1944, 947, 1947, 967, 1947, 967, 1947, 967, 1947, 967, 1947, 967, 1947,	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>4</sub> 13.30 0 0 9.01 0 19.15 0 +2 9.15 0 0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>2</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.11 0 0 9.97 -0 <sup>1</sup> <sub>4</sub> 0 10.07 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>4</sub> 10.43 dta C.cpn C.yid /1 10.44 10.62 /8 11.81 12.02 /10 18.55 16.97 /12 9 <sup>1</sup> <sub>5</sub> 9.83 /8 10 10.28 /11 10.08 10.35
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Sonatrach 8- 90 KD  Akzo 9- 87 LuxFr  Euratom 8 87 LuxFr  Eigh 9- 88 LuxFr  Eigh 9- 88 LuxFr  Volvo 9- 87 LuxFr  FLOATING RATE  NOTES  Atlied Irish Bk. 5- 87  Bank of Tokyo 5- 89  Barcioys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilibao Int. NV 5- 80  Bilibao Int. NV 5- 80	20 77 10 12 500 500 500 500 600 500	991, 991, 106, 1061, 1061, 107	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>4</sub> 13.30 0 0 9.01 0 19.15 0 +2 9.15 0 0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>2</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.11 0 0 9.97 -0 <sup>1</sup> <sub>4</sub> 0 10.07 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>4</sub> 10.43 dta C.cpn C.yid /1 10.44 10.62 /8 11.81 12.02 /10 18.55 16.97 /12 9 <sup>1</sup> <sub>5</sub> 9.83 /8 10 10.28 /11 10.08 10.35
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Sonatrach 8- 90 KD  Akzo 9- 87 LuxFr  Euratom 8 87 LuxFr  Eigh 9- 88 LuxFr  Eigh 9- 88 LuxFr  Volvo 9- 87 LuxFr  FLOATING RATE  NOTES  Atlied Irish Bk. 5- 87  Bank of Tokyo 5- 89  Barcioys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilibao Int. NV 5- 80  Bilibao Int. NV 5- 80	20 77 10 12 500 500 500 500 600 500	931, 937, 106, 1063, 1061, 106	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>4</sub> 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 8.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>2</sub> 10.21 0 -0 <sup>1</sup> <sub>3</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 0 9.97 -0 <sup>1</sup> <sub>4</sub> 0 10.03 dta C.cpn C.yid /1 10.44 10.62 /10 18.56 16.97 /12 9 <sup>1</sup> <sub>4</sub> 9.83 /11 10.08 10.35 /11 11.08 10.35 /11 10.08 10.35 /11 10.19 10.28
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Sonatrach 8- 90 KD  Akzo 9- 87 LuxFr  Euratom 8 87 LuxFr  Eigh 9- 88 LuxFr  Eigh 9- 88 LuxFr  Volvo 9- 87 LuxFr  FLOATING RATE  NOTES  Atlied Irish Bk. 5- 87  Bank of Tokyo 5- 89  Barcioys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilibao Int. NV 5- 80  Bilibao Int. NV 5- 80	20 77 10 12 500 500 500 500 600 500	991, 997, 106 1063, 106 1063, 1061, 1063, 1063, 1064, 994, 994, 994, 997, 983, 974, 984, 987, 279, 298, 397, 279, 2998, 397, 2998, 397, 279, 2998, 397, 279, 2998, 397, 279, 2998, 397, 378, 388, 388, 388, 388, 388, 388, 38	+0 <sup>1</sup> <sub>1</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>1</sub> +1 <sup>1</sup> <sub>3</sub> 13.30 0 0 9.01 0 7 9.15 0 +2 9.15 0 0 9.37 -0 <sup>1</sup> <sub>2</sub> -0 <sup>1</sup> <sub>3</sub> 10.21 0 0 9.57 -0 <sup>1</sup> <sub>3</sub> 0 10.01 0 0 9.57 -0 <sup>1</sup> <sub>4</sub> 0 10.43 dta C.cpn C.yid /1 10.44 10.62 /8 11.81 12.02 /10 18.56 16.97 /12 9 <sup>1</sup> <sub>3</sub> 9.83 /8 10. 10.28 /1 9 <sup>1</sup> <sub>3</sub> 9.77 /8 10.19 10.28 /1 9.69 9.82
Bandoras 9, 91 KD  CCCE 9, 91 KD  Mitsubishi 7, 28 KD  Luxfr  Euratom 8 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9, 88 Luxfr  Volvo 9, 88 Luxfr  Luxfr  FLOATING RATE  NOTES  Sp  Allled Irish Bk. 9, 87  Bank of Tokyo 5, 89  Barloys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilbso Int. NV 5, 90  Bargen Bk. A/S 6 89  Elibso Int. NV 5, 90  Bayee Indo Suez 5, 88  Criticorp O/S F. 83  Schioorp O/S F. 83  Criticorp O/S F. 83	20 70 10 12 500 500 500 500 500 500 500 500 500 50	931, 937, 106 1063, 1047, 951, 1047, 951, 1941, 941, 941, 941, 941, 941, 941, 9	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>4</sub> 13.30 0 0 9.01 0 19.15 0 +2 9.15 0 -0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.41 10 10.44 11 10.44 10.62 /11 10.44 10.62 /12 10.65 /13 10.65 /14 10.65 /15 10.65 /16 10.35 /17 10.66 /17 10.66 /18 10.35 /19 10.28 /19 10.28 /19 10.35 /19 10.28
Bandoras 9, 91 KD  CCCE 9, 91 KD  Mitsubishi 7, 28 KD  Luxfr  Euratom 8 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9, 88 Luxfr  Volvo 9, 88 Luxfr  Luxfr  FLOATING RATE  NOTES  Sp  Allled Irish Bk. 9, 87  Bank of Tokyo 5, 89  Barloys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilbso Int. NV 5, 90  Bargen Bk. A/S 6 89  Elibso Int. NV 5, 90  Bayee Indo Suez 5, 88  Criticorp O/S F. 83  Schioorp O/S F. 83  Criticorp O/S F. 83	20 70 10 12 500 500 500 500 500 500 500 500 500 50	931, 937, 106 1063, 1047, 951, 1047, 951, 1941, 941, 941, 941, 941, 941, 941, 9	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>4</sub> 13.30 0 0 9.01 0 19.15 0 +2 9.15 0 -0 9.37 -0 <sup>1</sup> <sub>4</sub> -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.21 0 -0 <sup>1</sup> <sub>4</sub> 10.41 10 10.44 11 10.44 10.62 /11 10.44 10.62 /12 10.65 /13 10.65 /14 10.65 /15 10.65 /16 10.35 /17 10.66 /17 10.66 /18 10.35 /19 10.28 /19 10.28 /19 10.35 /19 10.28
Bandoras 9-91 KD  CCCE 9-91 KD  Mitsubishi 7-1 84 KD  Mitsubishi 7-1 84 KD  Akzo 9-1 87 Luxfr  Euratom 8 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9-1 88 Luxfr  Volvo 9-1 87 Luxfr  FLOATING RATE  NOTES  Allied Irish Bk. 5-1 87  Bank of Irish 6-5 89  Barcloys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Barcloys O/S Inv. 5 90  Bagen Bk. A/S 6 89  Bilibso Int. NV 5-1 90  Bque. Indo Suaz 5-1 89  Egue. Indo Suaz 5-1 89  Criticopp O/S F. 84  C. Itch 6-5 87  Co-poperative 8k. 5 88	20 7 10 10 12 500 600 500 600 600 600 600 600 600 600	997, 997, 106 1063, 107 106 1063, 107 107 107 107 107 107 107 107 107 107	+04 +12 12.54 +07 +13 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -07 -07 10.21 0 -07 10.21 0 -07 10.43 0 -07 10.43 dts C.cpn C.yid /1 10.44 10.62 /10 18.55 16.97 /12 94 9.83 /8 10.81 12.02 /10 18.55 16.97 /12 94 9.83 /11 10.05 10.35 /1 95 9.82 /1 10.44 10.55 /1 10.98 10.35 /1 95 9.82 /9 19.44 19.51
Bandoras 94, 91 KD  CCCE 94, 91 KD  Mitaubishi 74, 84 KD  Sonatrach 84, 90 KD  Akzo 94, 87 Luxfr  Euratom 8 87 Luxfr  Euratom 8 87 Luxfr  Euratom 94, 88 Luxfr  FLOATING RATE  NOTES  Atlied Irish 8k, 54, 87  Bank of Tokyo 54, 89  Bank of Tokyo 55, 89  Bank of Tokyo 56, 89  Bank of Tokyo 57, 89  Concorp 0/5 F. 83  Criticorp 0/5 F. 83  Criticorp 0/5 F. 84  Conperative 8k, 5 86  Conperative 8k, 5 86  Congerative 8k, 5 86	20 7 10 10 12 500 600° 500° 5	997, 997, 106 1063, 107 106 1063, 107 107 107 107 107 107 107 107 107 107	+04 +12 12.54 +07 +13 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -07 -07 10.21 0 -07 10.21 0 -07 10.43 0 -07 10.43 dts C.cpn C.yid /1 10.44 10.62 /10 18.55 16.97 /12 94 9.83 /8 10.81 12.02 /10 18.55 16.97 /12 94 9.83 /11 10.05 10.35 /1 95 9.82 /1 10.44 10.55 /1 10.98 10.35 /1 95 9.82 /9 19.44 19.51
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Akzo 9- 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9- 88 Luxfr  Eijs 9- 88 Luxfr  Volvo 9- 87 Luxfr  FLOATING RATE  NOTES  Allied Irish 8k. 9- 87  Bank of Irish 9- 89  Barcloys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilbao Int. NV 9- 90  Baye. Indo Suez 9- 89  Egite. Indo Suez 9- 89  Criticopp 0/S F. 84  C. Itch 6-8 87  Creditanstalt 6-2 81  ST 5-8 86  CRT 5-8 86	20 7 10 12 500 600 500 600 600 600 600 600 600 600	931, 931, 164 164 164 164 164 164 164 164 164 164	+04 +12 12.54 +07 +13 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -07 -07 10.21 0 -07 10.21 0 -07 10.43 0 -07 10.43 dts C.cpn C.yid /1 10.44 10.62 /10 18.55 16.97 /12 94 9.83 /8 10.81 12.02 /10 18.55 16.97 /12 94 9.83 /11 10.05 10.35 /1 95 9.82 /1 10.44 10.55 /1 10.98 10.35 /1 95 9.82 /9 19.44 19.51
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Akzo 9- 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9- 88 Luxfr  Eijs 9- 88 Luxfr  Volvo 9- 87 Luxfr  FLOATING RATE  NOTES  Allied Irish 8k. 9- 87  Bank of Irish 9- 89  Barcloys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilbao Int. NV 9- 90  Baye. Indo Suez 9- 89  Egite. Indo Suez 9- 89  Criticopp 0/S F. 84  C. Itch 6-8 87  Creditanstalt 6-2 81  ST 5-8 86  CRT 5-8 86	20 7 10 12 500 600 500 600 600 600 600 600 600 600	997, 997, 164 165 165 165 165 165 165 165 165 165 165	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>2</sup> <sub>4</sub> 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0 <sup>2</sup> <sub>4</sub> -0 <sup>2</sup> <sub>4</sub> 10.21 0 -0 <sup>2</sup> <sub>5</sub> 10.21 0 0 -0 <sup>2</sup> <sub>5</sub> 10.21 0 0 9.97 -0 <sup>2</sup> <sub>4</sub> -0 <sup>2</sup> <sub>4</sub> 10.43 dta C.cpn C.yid // 10.44 10.62 // 11.81 12.02 // 10 18.56 16.97 // 12 9 <sup>2</sup> <sub>4</sub> 9.83 // 10.08 10.35 // 10.09 9.82 // 10.19 10.28 // 11.14 19.49 // 11.14 11.51 // 19.9 9.82 // 11.14 11.51 // 19.9 9.44 19.49 // 10.18 11.51
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Akzo 9- 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9- 88 Luxfr  Eijs 9- 88 Luxfr  Volvo 9- 87 Luxfr  FLOATING RATE  NOTES  Allied Irish 8k. 9- 87  Bank of Irish 9- 89  Barcloys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilbao Int. NV 9- 90  Baye. Indo Suez 9- 89  Egite. Indo Suez 9- 89  Criticopp 0/S F. 84  C. Itch 6-8 87  Creditanstalt 6-2 81  ST 5-8 86  CRT 5-8 86	20 7 10 12 500 600 500 600 600 600 600 600 600 600	997, 997, 164 165 165 165 165 165 165 165 165 165 165	+0 <sup>1</sup> <sub>4</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>4</sub> +1 <sup>2</sup> <sub>4</sub> 13.30 0 0 9.01 0 0 9.15 0 +2 9.15 0 0 9.37 -0 <sup>2</sup> <sub>4</sub> -0 <sup>2</sup> <sub>4</sub> 10.21 0 -0 <sup>2</sup> <sub>5</sub> 10.21 0 0 -0 <sup>2</sup> <sub>5</sub> 10.21 0 0 9.97 -0 <sup>2</sup> <sub>4</sub> -0 <sup>2</sup> <sub>4</sub> 10.43 dta C.cpn C.yid // 10.44 10.62 // 11.81 12.02 // 10 18.56 16.97 // 12 9 <sup>2</sup> <sub>4</sub> 9.83 // 10.08 10.35 // 10.09 9.82 // 10.19 10.28 // 11.14 19.49 // 11.14 11.51 // 19.9 9.82 // 11.14 19.49 // 11.14 11.51 // 19.49 9.70 // 10.18 10.28 // 10.19 10.28
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Akzo 9- 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9- 88 Luxfr  Eijs 9- 88 Luxfr  Volvo 9- 87 Luxfr  FLOATING RATE  NOTES  Allied Irish 8k. 9- 87  Bank of Irish 9- 89  Barcloys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilbao Int. NV 9- 90  Baye. Indo Suez 9- 89  Egite. Indo Suez 9- 89  Criticopp 0/S F. 84  C. Itch 6-8 87  Creditanstalt 6-2 81  ST 5-8 86  CRT 5-8 86	20 7 10 12 500 600 500 600 600 600 600 600 600 600	99 <sup>1</sup> , 99 <sup>1</sup> , 106 106 <sup>1</sup> , 106 106 <sup>1</sup> , 106 <sup>1</sup> , 106 <sup>1</sup> , 195 <sup>1</sup> ,	+0 <sup>1</sup> <sub>1</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>1</sub> +1 <sup>1</sup> <sub>3</sub> 13.30 0 0 9.01 0 7 9.15 0 0 8.37 -0 <sup>1</sup> <sub>2</sub> -0 <sup>1</sup> <sub>2</sub> 10.21 0 -0 <sup>1</sup> <sub>3</sub> 10.21 0 -0 <sup>1</sup> <sub>3</sub> 10.31 0 0 9.97 -0 <sup>1</sup> <sub>4</sub> 0 10.43 dtas C.cpn C.yid /1 10.44 10.62 /8 11.41 12.02 /10 18.55 16.97 /12 9 <sup>1</sup> <sub>3</sub> 9.87 /1 10.06 10.35 /1 10.08 10.35 /1 10.19 10.28 /1 11.44 11.61 /8 14.4 11.61 /8 14.4 11.61 /8 14.4 17.95 /8 15.4 19.49 /10 18 <sup>1</sup> <sub>4</sub> 17.95 /8 15.4 19.49 /10 18 <sup>1</sup> <sub>4</sub> 17.95 /8 15.4 17.95 /8 15.4 17.95
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Akzo 9- 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9- 88 Luxfr  Eijs 9- 88 Luxfr  Volvo 9- 87 Luxfr  FLOATING RATE  NOTES  Allied Irish 8k. 9- 87  Bank of Irish 9- 89  Barcloys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilibao Int. NV 9- 90  Baye. Indo Suez 9- 89  Egite. Indo Suez 9- 89  Criticopp 0/S F. 84  C. Itch 6-8 87  Creditanstalt 6-2 81  ST 5-8 86  CRT 5-8 86	20 7 10 10 12 5500 5500 5500 6500 6500 6500 6500 650	99 <sup>1</sup> , 99 <sup>1</sup> , 106 106 <sup>1</sup> , 106 106 <sup>1</sup> , 106 <sup>1</sup> , 106 <sup>1</sup> , 195 <sup>1</sup> ,	+0 <sup>1</sup> <sub>1</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>1</sub> +1 <sup>1</sup> <sub>3</sub> 13.30 0 0 9.01 0 7 9.15 0 0 8.37 -0 <sup>1</sup> <sub>2</sub> -0 <sup>1</sup> <sub>2</sub> 10.21 0 -0 <sup>1</sup> <sub>3</sub> 10.21 0 -0 <sup>1</sup> <sub>3</sub> 10.31 0 0 9.97 -0 <sup>1</sup> <sub>4</sub> 0 10.43 dtas C.cpn C.yid /1 10.44 10.62 /8 11.41 12.02 /10 18.55 16.97 /12 9 <sup>1</sup> <sub>3</sub> 9.87 /1 10.06 10.35 /1 10.08 10.35 /1 10.19 10.28 /1 11.44 11.61 /8 14.4 11.61 /8 14.4 11.61 /8 14.4 17.95 /8 15.4 19.49 /10 18 <sup>1</sup> <sub>4</sub> 17.95 /8 15.4 19.49 /10 18 <sup>1</sup> <sub>4</sub> 17.95 /8 15.4 17.95 /8 15.4 17.95
Bandoras 9-, 91 KD  CCCE 9-, 91 KD  Mitsubishi 7-, 24 KD  Mitsubishi 7-, 24 KD  Akzo 9-, 87 Luxfr  Euratom 8 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9-, 88 Luxfr  Volvo 9-, 87 Luxfr  FLOATING RATE  NOTES  Allied Irish Bk. 5-, 87  Bank of Irish 6-, 87  Bank of Irish 6-, 87  Bank of Irish 8-, 5-, 87  Bank of Irish 8-, 5-, 88  Barcloys O/S Inv. 5 90  Bargen 8-, 8-, 8-, 8-, 8-, 8-, 8-, 8-, 8-, 8-,	20 7 10 10 12 5500 5500 5500 6500 6500 6500 6500 650	991, 991, 1941, 1951, 19	+0 <sup>1</sup> <sub>1</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>1</sub> +1 <sup>1</sup> <sub>3</sub> 13.30 0 9.01 0 79.15 0 +2 9.15 0 0 8.37 -0 <sup>1</sup> <sub>2</sub> -0 <sup>2</sup> <sub>3</sub> 10.21 0 -0 <sup>2</sup> <sub>3</sub> 10.21 0 -0 <sup>2</sup> <sub>3</sub> 10.11 0 0 9.97 -0 <sup>1</sup> <sub>4</sub> 0 10.07 -0 <sup>1</sup> <sub>4</sub> -0 <sup>3</sup> <sub>3</sub> 10.43 dts C.cpn C.yid /1 10.44 10.62 /8 11.81 12.02 /10 18.55 16.97 /1 10.28 /1 10.55 10.28 /1 11.11 10.28 /1 10.
Bandoras 9- 91 KD  CCCE 9- 91 KD  Mitsubishi 7- 84 KD  Mitsubishi 7- 84 KD  Akzo 9- 87 Luxfr  Euratom 8 87 Luxfr  Euratom 9- 88 Luxfr  Eijs 9- 88 Luxfr  Volvo 9- 87 Luxfr  FLOATING RATE  NOTES  Allied Irish 8k. 9- 87  Bank of Irish 9- 89  Barcloys O/S Inv. 5 90  Bargen 8k. A/S 6 89  Bilibao Int. NV 9- 90  Baye. Indo Suez 9- 89  Egite. Indo Suez 9- 89  Criticopp 0/S F. 84  C. Itch 6-8 87  Creditanstalt 6-2 81  ST 5-8 86  CRT 5-8 86	20 7 10 10 1 500 500 Fe 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	99 <sup>1</sup> , 99 <sup>1</sup> , 106 106 <sup>1</sup> , 106 106 <sup>1</sup> , 106 <sup>1</sup> , 106 <sup>1</sup> , 195 <sup>1</sup> ,	+0 <sup>1</sup> <sub>1</sub> +1 <sup>1</sup> <sub>2</sub> 12.54 +0 <sup>1</sup> <sub>1</sub> +1 <sup>1</sup> <sub>3</sub> 13.30 0 9.01 0 79.15 0 +2 9.15 0 0 8.37 -0 <sup>1</sup> <sub>2</sub> -0 <sup>2</sup> <sub>3</sub> 10.21 0 -0 <sup>2</sup> <sub>3</sub> 10.21 0 -0 <sup>2</sup> <sub>3</sub> 10.11 0 0 9.97 -0 <sup>1</sup> <sub>4</sub> 0 10.07 -0 <sup>1</sup> <sub>4</sub> -0 <sup>3</sup> <sub>3</sub> 10.43 dts C.cpn C.yid /1 10.44 10.62 /8 11.81 12.02 /10 18.55 16.97 /1 10.28 /1 10.55 10.28 /1 11.11 10.28 /1 10.

	The list shows the 200 latest
,	
	international bonds for which
	an adequate secondary market
3	exists. The prices over the past
1	week were supplied by: Arab
i -	Company for Trading Securities
١	SAK; Kredietbank NV; Credit
	Commercial de France; Credit
i	Lyonnais; Commerzbank AG;
: 1	Deutsche Bank AG; Westdeutsche
: 1	Tender's Cinemater's Description
	Landesbank Girozentrale; Banque
	Generale du Luxembourg SA;
- 1	Banque Internationale Luxem-
•	bourg; Kredietbank Luxembourg;
1	. Algemene Bank Nederland NV;
- 1	Pierson, Heldring and Pierson:
- {	Pierson, Heldring and Pierson; Credit Suisse/Swiss Credit Bank;
1	Union Bank of Switzerland:
H	Akroyd and Smithers; Bankers
	Trust International; Bondtrade;
١,	Credit Commercial de France
٠ ١	(Secs.) London; Citicorp Inter-
	national Bank; Daiwa Europe
- 1	NV: Deltec Trading Company:
1	Dillon, Read Overseas Corpora-
-1	Dillon, Read Overseas Corpora-
- 1	tion; EBC; First Chicago;
- 1	Goldman Sachs International
- [	Corporation; Hambres Bank: IBJ
ŀ	International; Kidder Peabody International; Merrill Lynch;
- 1	International: Merrill Lynch:
1	Morgan Stanley International:
1	Nesbitt Thomson, Orion Bank,
ľ	Morgan Stanley International: Nesbitt Thomson; Orion Bank; Salomon Brothers International;
1	Samuel Montagu and Co.; Scan-
ı	dinavian Bank; Strauss Turnbull
1	and Car Camitages Finance Total
ŀ	and Co.; Sumitomo Finance Inter-
1	national; S. G. Warburg and Co.;

All of these securities having been sold, this announcement appears as a matter of record only,

New issue / July, 1980

\$150,000,000



# American Can Company

11%% Debentures Due July 1, 2010

### Salomon Brothers

The First Boston Corporation

Goldman, Sachs & Co.

Lazard Frères & Co.

Merrill Lynch White Weld Capital Markets Group Bear, Stearns & Co.

Blyth Eastman Paine Webber

**Bache Halsey Stuart Shields** Dillon, Read & Co. Inc.

**Donaldson, Lufkin & Jenreite** Kidder, Peabody & Co. Lehman Brothers Kuhn Loeb L. F. Rothschild, Unterberg, Towbin

**Drexel Burnham Lambert** 

E. F. Hutton & Company Inc.

Warburg Paribas Becker

Shearson Loeb Rhoades Inc.

Wertheim & Co., Inc.

Smith Barney, Harris Upham & Co. Dean Witter Reynolds Inc.

**ABD Securities Corporation Basie Securities Corporation**  Allen & Company Alex. Brown & Sons

A. E. Ames & Co. **Attantic Capital** Daiwa Securities America Inc.

F. Eberstadt & Co., Inc. A. G. Edwards & Sons, Inc. Robert Fleming Kleinwort, Benson

Moseley, Haligarten, Estabrook & Weeden Inc.

**EuroPartners Securities Corporation** Ladenburg, Thalmann & Co. Inc.

The Nikko Securities Co. Oppenheimer & Co., Inc.

Nomura Securities International, Inc. Wm. E. Poliock & Co., inc. Stuart Brothers

Thomson McKinnon Securities Inc. **Wood Gundy Incorporated** 

Tucker, Anthony & R. L. Day, Inc. Yamaichi International (America), Inc.

**New Court Securities Corporation** 

New Japan Securities International Inc. Nippon Kangyo Kakumaru International Inc.

Sanyo Securities America Inc.

HONG KONG Companies and Markets HOLLAND 1980 July 18. Price **CANADA** 1980 High | Low July 18 1980 Hìgh Low 1980 High | Low High Low 17.70 9.20 Cheung Kong 2.751 1.84 Coeme Prop. 12.40 8.60 Cross Harbour 7.10 4.86 Eastn Asia Nav. 1.88 00 80.00 Hang Seng Bank 7.98 5.05 Hk Electric .... 80.00 55.00 HK Kowloon Wh. 14.40 9.24 HK Shanghai Bk. 29.56 21.74 HK Telephone 11.40 8.70 Hutchison Wpa. 20.90 11.74 Jardine Math 5.20 5.10 New World Dev. 6.15 3.25 o'seas Trust Bk. 15.90 7.65 SHK Props. 10.30 8.90 Swire Pac A 5.25 4.30 Wheel'k Martit e High Low Stock July 18 Stock **NEW YORK** Stock Stock High | Low 17.70 75 1250 291 181 113 91<sub>8</sub> 1256<sub>9</sub> 295<sub>9</sub> 211<sub>9</sub> July 18 High i Low 859 : 24 5778 454 Gt. Atl. Pag. Tea 5
12 Gt. Basins Pet... 1358
27-3 Gt.Ntnn.Nekogsa 3414
1412 Gt. Wast Financi, 3358 46 361; 204; 661; 134; 227; 425; 42 35 27 18 9 473 39:g 31: Columbia Gas .. 72.5 65.5xd 22.5 High | Low **Stock** 68.1 ACF Holding... Columbia Pict... Combined Int. ... Combustr. Eng... 80 85 26 High 2434 18 Abitibi 90
16 10 Agnico Eagle 153e
36 257 Alcan Alumn 554
41 28 Algoma Steel 354;
3845 3112 Abbestos 55
28 225e Bk Montraal 28
2034 95g Basic Resources, 1544 Low Stock 23 % 181<sub>8</sub> | 317<sub>4</sub> | 18 2756 4356 5634 2378 18 . 9 . 31 89 4414 4614 39 2634 4348 5558 2076 2276 Combustn Equip: Cmwith Edison... Comm. Satellie... 315 103.6 5154 2759 11714 173g 53g 50 871<sub>4</sub> 405<sub>4</sub> 411<sub>2</sub> 331<sub>8</sub> 405<sub>8</sub> 383<sub>4</sub> 28.5 21.4 Caland Hidgs 22.9
289.2 201 Elsevier 136.5
142 115 Ennis 136.5
72.8 56 Euro Com Tst 57.50
35.6 26.8 Gist-Brocades 61.3 m
85.5 48.2 Heineken 61.3 m
24 15.2 Hunter Douglas 16.0
29 30.3 Int-Mueller 68.7
18.5 13.1 Rasarden 15.2
117.5 100.9 Nat Ned Cerd Bank 15.2
117.5 100.9 Nat Ned Cerd Bank 236.9
244 191 Ned Mid Bank 236.9
92.7 70 Ned Kid Bank 236.9
92.7 70 Ned Kid Bank 236.9
92.7 70 Ned Kid Bank 236.9
19.1 9.5 OGEM 10.2
27.4 19.6 Commeren (Van) 12.0
19.1 9.5 OGEM 12.3
57.2 38.5 Pakhoed 10.2
19.1 19.5 Commeren (Van) 16.7
19.1 19.1 Roy Mid Bank 15.2
19.1 19.5 Commeren (Van) 16.8
16.7 Philips 18.1
17.6 10.3 Roy Roy Roy 16.5
10.3 103.4 Rod Roy 16.5
10.5 12.5 (Roy Pac Hg 15.5
12.5 100.5 Unitaver 115.0
175.3 13.5 73.2 VNU. 35
36.5 28 VMF-Stork 35
36.5 73.2 VNU. 35
36.5 73.2 VNU. 35
36.5 28 VMF-Stork 35
36.5 74.5 Volker Stevin 49.5
374LY 261s 461s 239.2 | 211g | 1734 | Bell Canada | 2014 | 2512 | 1114 | Bow Valley | 2275 | 24 | 35 | BF Canada | 4634 | 2819 | 2114 | 7 | Brinco | 815 | 1634 | 1115 | 8.C. Forest | 1455 | 2254 | 17 | Cadillac Fairy | 2256 | 28 | 1656 | Camflo Mines | 2734 | 1456 | 1054 | Can NW Lands | 2534 | 24 | 1676 | Can NW Lands | 2534 | 40°8 | 51°4 40°8 | 29°8 58 | 41°8 24°1 | 14°8 26°2 | 20 27 25°4 | 15°1 48°2 | 37°4 21°2 | 15°5 21°2 | 15°5 Cons Edison...... Cons Foods...... Cons Freight.... Cons Nat Gas.... ConsumerPower JAPAN 2434 30 38 241<sub>2</sub> 427<sub>6</sub> 291<sub>8</sub> | 103g | ConsumerFower | 1913 | 631 | Contl Air Lines ... 878 | 22 | Contt Corp ... 2714 | 255g | Contt Group ... 307g | 215g | Contl Nilnois ... 501g | 123g | Contl Telep ... 1518 | 441g | Control Data ... 63 Price Yen July 18 1980 High | Low 2914 Can Packers 3212
15 Can Perm Mig 1834
18 Can Trustoo 2514
22 Can Imp Bank 2618
2455 Cdn Inds 25
3475 Cdn Pacific 4256
1818 Can P. Ent 24
2316 Cdn Tire 26
914 Cherokee Res 1212 650 476 448 511 351<sub>2</sub> 191<sub>6</sub> 261<sub>2</sub> 271<sub>8</sub> 291<sub>4</sub> 487<sub>8</sub> 241<sub>4</sub> 28 655 646 648 560 667 395 1,000 405 555 455 429 1,025 429 1,025 427 970 731: 3753 5014 480 Bridgestone 579 Canon 310 Citizen 718 Daiai 357 DKBO 480 Dai Nippon Ptg 275 ITS Nippon Ptg 275 ITS Nippon Ptg 275 ITS Nippon Ptg 180 Dai Nippo 175, Cooper Inds...... |Coors Adolph .....| |Copetand ...... |Copperweld ..... |Corning Glass... |Corroon Black... |Cox Broadcast g 431-1531 2514 2034 5819 2814 8018 44 5654 5056 5334 3512 2312 Amai, Sugar...... 1534 251; 1814 Copeland
161 Copperweld
453 Corning Glass...
20 Corroon Black...
60 Cox Broadcast g
3112 Crane...
243a Crocker Nat...
25 Crown Cork...
5534 Crown Zell...
25 Crown Eng. 80 | 52½ | NCR | 71½ | 71½ | 35½ | 176c | Naw England El. | 23 | 35½ | 28%, Naw England El. | 25 | 35½ | 28%, Naw England El. | 35 | 24% | 176c | 176 480 Pai Nippon Pa 275 Daiwa House 271 Daiwa Seiko 369 Ebara 370 Fuji Bank 457 Fuji Bank 457 Fuji Bank 457 Fuji Bank 1,810 Green Cross 470 Hassawa 3512 30 779 26% 44:4 7812 4934 4453 20:2 3,100 2,020 554 578 29 1714 NLT

3918 2116 Morfolk & Westd
4812 3014 Nth. Am. Coal...
3112 2834 Nth. Am. Coal...
2513 1818 Nth. Am. Philips
2513 655 Northgate Exp.
5612 3776 Northgate Exp.
5612 3776 Neest Airides.
2914 1812 Neest Airides.
2914 1812 Neest Inds.
3518 2834 Neest Inds.
3518 1118 2058 Northon Simon.
5614 11 Norton Simon.
5615 1118 2058 Oglen.
2514 20 Oglen.
2515 1118 Onio Edison.
2616 2816 Omark. 251|Htachi 492|Htachi 654|Honda 700|Housa Food 700|Housa Food 750|Hoya 400|toh (C) 516|Itoh-Ham 1,000|toh-Yokado 390|JACCS 275 669 686 853 684 554 5178 268 612 549 850 850 410 569 140 465 340 709 284 ITALY 1980 July 18 #igh Low 7.5 6.0 ANIC 7.5 6.0 ANIC 7.5 6.0 ANIC 7.5 62.480 44.000 Assicur Gen 7.5 524 Barca Com le. 7.75 524 Barca Com le. 7.75 6.40 6.500 Centrale 7.75 6.40 6.500 Centrale 7.75 6.500 Centrale 7.500 Centrale 7.5 451: Am. Standard...... 631: 201: Am. Stores........ 283: 451: Am. Tel. & Tel.... 527: 7.5 69.250 16,460 550 10.890 6,500 1,860 1,860 2,226 23,880 322 12 12 Dentsply Intl.,.... 11 Detroit Edison..... 26 Diamond Intl...... 25 Diamond Shamk 7a DiGorgio...... 2012 1318 5014 1435 1546 1556 10153 3854 4854 569 1512 4912 4912 5514 25 61<sub>2</sub> 141: Amstar ... 23 303: Amstead Inda ... 383: 14 Anchor Hockg ... 184: 21 Anheuser-Bh ... 294: 191: Arcata ... 2473 25 Archer Daniets ... 351: 231: Armco ... 29 DiGiorgio..... Digital Equip..... Dillingham ....... | Dillingham | 12 iz |
Dillingham	17 iz
Dillion	17 iz
Disney Walt	50 iz
Dome Mines	55
Donnelley (RP)	34
Dover Corp	42 iz
Dow Chemical	34
Dow Jones	44
Dravo	57 iz
Disser	69
Dr. Pepper	12 iz
Duke Power	18 iz
Duke Power	18 iz
Du Pont	44
E G & G	50
Hudson Bay Mng. 28 L4	
Hudson's Bay 242e
do, Oil & Gas. 351/2
Husky Oil. 181/2
IAC 101/8
Imp Oil A 447s
Inco. 255/8
Inco. 255/8
Inco. 141/2
Interpr. Pipe 18 450 1,150 398 715 496 381 420 3,350 1,877 2,131 760 746 550 13,250 9,510 7114 51 IBM 653s

251a 17 Int. Flavours 217s

39 253s int. Harvester 32

1012 10 int. Income Prop 1014

485s 21's int. Multifoods 17

485s 21's int. Paper 401s

30 255s int. Tel 87 15

30 3014 18 int. Rectifier 251

30 30 4 int. Rectifier 251

30 30 4 int. Rectifier 251

30 30 4 1754 1254 Armstrong CK. 1754 2714 1515 Asamera Oil. 2019 5712 3015 Assarco. 3615 4159 2754 Assarco. 3755 24 1718 Assd D Goods. 24 52 354 Attantic Rich. 48 4415 3234 Auto.Data Prg. 4415 29 1918 Avco. 2414 2274 1512 Avery Intl. 1948 879 Outboard Marine 1212
18 Overseas Ship... 52
1224 Owens Corning... 2948
1 2019 Owens Illinois... 2514
1 1914 PHH Group...... 3078
1 2569 PPG Inds....... 3419
1014 Pabst Brewing... 113
1914 Pac. Lighting... 2248
41 Pac. Lumber... 5314 16 32 303 261 3078 304 955 Makita 330 Maruberi 496 Maruberi 598 Maruberi 647 Matsushita 505 M'ta Elec Works 367 M'bishi Bank 606 M'bishi Corp. 185 M'bishi Rics. 337 M'bishi Rics. 1,010 574 620 670 676 564 416 645 191 380 175 NORWAY 1,190 408 666 786 736 579 420 784 210 443 203 410 555 465 1980 High | Low July 18 Easco. 105a Eastern Airlines. 105a Eastern Gas & F. 225a Eastman Kodak. 575a Eastman Kodak. 285a Eastman Mfg .... 145a 11 Pac, Tel & Tel. 1856
1818 Palm Boach 1654
879 Pan Am Air 618
8819 Pan Hand Pipe. 3418
8412 Parker Drilling 4934
24 Parker Hanfin 2912
1914 Peabody Init 26
2014 Penney JG 2614
2512 Pennwalt 2914
34 Pennzoil 4256
4018 People 8 Gas 493 1058 2578 5879 284 1858 1356 1719 618 3578 3236 2913 2712 3418 5578 115 101.5 Bergens Bank .... 92.5 72.Borregaard ...... 128 112 Credithank ..... 106.5 2950 2836 574 3014 3836 1646 3576 3816 537.M bishi Ri Est.
168 MHI.
308 Mitsui Ri Est.
390 Mitsui Ri Est.
390 Mitsui Ri Est.
430 Mitsui Ri Est.
430 Migk Insulators.
1,030 Nippon Denso
650 Mippon Meat.
1,300 Nippon Meat.
1,300 Nippon Shinpan.
118 Nippon Sheel.
193 Nippon Suisan.
4,300 MTV.
618 Nissan Motor. SWEDEN 4612 July 18 145s Transamerica 18
291s Trans Union. 337s
201s Transway. 2214
10 Trans World. 151s
35 Travelers. 415s
161s Tri Continental. 2014 264 527 354 High | Low 25% Enserch....... 6% Envirotech ..... 25 Esmark....... 22% Ethyl...... 437e 294; 84 3718 44 471<sub>z</sub> 1568 4258 26¾ 12 29 1612 618 Nissan Motor...
317 Nisshin Flour...
137 Nisshin Steel...
358 Nomure...
265 NYK...
900 Orient...
1700 Pioneer...
483 Renown...
525 Ricoh
548 Sanyo Elec...
226 Sapporo...
627 Sakisui Prefab...
468 Sharp... 384 185, 440 340 1,50 2,050 884 655 412 285 810 871 1,010 2,280 481 291 726 800 559 FMG.... 381<sub>2</sub> 273<sub>8</sub> 301<sub>2</sub> 283<sub>2</sub> 19 51<sub>8</sub> 197<sub>8</sub> 195<sub>8</sub> 291<sub>4</sub> 165<sub>4</sub> 631<sub>8</sub> 2818 812 5134 2634 38 2314 79 2018 65,Saab-Scanla 73
208/Sandvik 210
227,Skandia 255
106/Skan Enskilda 126
58-SKF 69
148,St. Kopparberg 192
63,5/Sven Handelshn 68
75/Tandstik 97,5
57,Uddeholm 58
66/Volvo 65,5 345g 105g 305<sub>+</sub> 28 95. 254 183 77. 212 97.5 89. 84.5 1012 576 Braniff Inti 714
2516 2018 Briggs Stratm. 26
4412 3054 Bristol-Myers 4412
5314 2818 Brockway Glass 16
5018 1719 Brown 301;
4412 3458 Brown Forman 8
4412 3458 Brow 32 4 29 Prentice-Hall .... 93g · 614 391c · 523c 1714 · 1078 15½ Pub. Serv. E & G. 20½
17¼ Pub. S. Indiana... 25½
20 Puilman... 31½
13½ Purex .... 16½
24½ Quaker Cats... 32½
16½ Quanex ... 26
19¾ Rayer ... 6
19¾ Rayer ... 12½
5½ Ramada inns ... 8½
15¼ Raytheon ... 11¼
27½ Raytheon ... 51¼
27½ Raytheon ... 51¼
27½ Raytheon ... 51¼
27½ Raytheon ... 10¾
25½ Raytheon ... 10¾ 627 Sekisul Prefab...
468 Sharp...
865 Shiseldo...
1,530 Sony...
390 Stanley...
245 Storno Marine...
615 Talhei Dengyo...
196 Talsei Corp...
521 Talsho Pharm...
456 Takeda...
1,720 TPK....
135 Teilin...
920 Teikoku Oit... 161<u>9</u> 471<sub>2</sub> 47 1st City Bank Tex: 4614 1st Ini Banc....... 46 1st Mississippi...; 4214 1st Nat. Boston...; 3278 SWITZERLAND | 155a | Bucyrus-Erie .... | 211a | 15 | Burlington Ind ... | 2214 | 35 | Burlington Nrhn... | 385a | 581a | 591a | 581a 1960 Price Frs. | 23-12 Lockheed | 50% |
535s	Loews	77%
2312	Lone Star Inds	32
225s	Longs Drug Stra	271s
3312	Louisiana Land	47%
1815	Louisiana Pac	275
75s	Lowenstein	10%
5112	Lubrizol	721s
1334	Lober Stre	1334
Rep of Texas..... 293
Resch Cottrell... 171
Resorts Intl A.... 351
Resorts Intl A.... 263 FRANCE MacMillan. . Madison Fund. .. Micrs Hanover 134 91<sub>8</sub> Vilginia EP... 301<sub>9</sub> Vulcan Matris Resort Cottrell. 1714
Resorts Intl A. 3514
Revoo (DS). 2933
Revere Copport 1418
Revion. 5038
Rexnord. 1712
Reynolds RIJ: 3873
Reynolds RIJ: 3873
Reynolds RIJ: 2678
Rochester Gas. 1419
Ro | 1214 | 916 Vilginia EP | 114 | 37 | 3012 Vulcan Metris | ... 5576 | 3414 | 2214 Walker (Hm.C.H. 2416 2713 | 1912 Walker (Hm.C.H. 2416 2713 | 1912 Walker (Mm.C.H. 2416 2714 | 1176 Warnaco | ... 1556 443 | 3566 Warner-Lambt | ... 1976 243 | 1716 Warner-Lambt | ... 1976 2514 | 16 Washington Poet 1714 59 | 3576 Waste Mangt | ... 2516 2516 | 2212 Weis Mkts | ... 251714 | 2176 Weils Fargo | ... 2514 4176 | 2812 W. Point Peppl | ... 4176 1056 | 614 Westen Airlines | 814 2512 | Westen Airlines | 814 2512 | Westen Mange | ... 2512 | 3812 | 3714 | 2812 | Westen Mange | ... 2513 | 3714 | 28 Westen Westen | ... 2512 | 3714 | 28 Westen Westen | ... 2512 | 3714 | 28 Westen Westen | ... 2512 | 3714 | 28 Westen Westen | ... 2512 | 3714 | 28 Westen Westen | ... 2512 | 3714 | 28 Westen Westen | ... 2512 | 3514 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 2512 | ... 25 July 18 Price Fra. 20' GK Technologies 14% Carter Hawley ... 21 43% Caterpillar .... 57% 40% Celanese Corp .. 51% 28% Center Mapco. . ..... Marathon Oil. ... 39 # Gamble Sk 38 Gannett . 225r Gelco .... Marine Mid. ... 17:8
Marine Mid. ... 26:3
Marriott ... 24:2
Marsh McLenn ... 67:4
Marshall Field ... 17 Central & SW...... 9°; Central Soya 31°; Central Tel Util. 11°; Cessna Aircraft. 1 °; Cessna Aircraft. 1 °; Champ Intt. 8 ° Champ Sp Piug. 17 ° Charter Co. 34°; Chase Maonhath 35°; Chessie System. 17 ° Chessie System. 17 ° Chicago Pieum. 50°; Chysier. 50°; Chubo. SOUTH AFRICA Martin Mtta..... 451 BIC. 147 Bang Rothschild 523 Bourgues. 850 BSN Gervals. 1.239 Carrefour. 1255 Ciub Mediter. 528 CgE. 427 CSF (Thomson) 24 lg 291, 536 | High | Low | Rand | Rand | 3.65 | 2.65 | Abarcom | 3.65 | 8.00 | 6.45 | AE & Cl | 7.80 | 17.75 | 12.30 | Anglo Am. Cp. | 17.56 | 11.25 | 80 | Anglo Am. Cp. | 17.56 | 11.25 | 80 | Anglo Am. Gold | 11.05 | 48.00 | 30.00 | Buffels | 46.5 | 5.20 | 3.40 | CNA | Invests | 6.20 | 1.30 | Curris Financs | 2.15 | 11.75 | 6.85 | De Beers | 11.65 | 31.25 | 21.50 | East Drie | 28.85 | 76.5 | 48.00 | FS Geduid | 73.95 | 66.50 | Gold Fields SA. | 95 | 5.30 | 3.53 | Highwald Steel | 5.05 | 9.00 | 5.30 | Hights | 5.40 | 38.5 | 5.00 | S.65 | 5.50 | S.65 | 5.50 | S.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5. 91g 26 235g 6% Mattel. 9% 18% May Dept Strs. 25% 15% Mayer (Oscar)... 17% | 84g | Rober Corp\* | 11 | 1956 | Rowan | 325g | 1014 | Royal Orown | 151g | 6952 | Royal Outch | 91 | 2012 | Rubbermaid | 25 | 117g | Russell Stvr | 135g | 1652 | Ryan Homes | 271g | 1654 | Ryder System | 24 | 1957 | SFN Companies | 241g | 241g | 257 | 367g | 301g | 311g | 526 | 367g | 398g | 3 AUSTRALIA 117g 325g 145; 92 3714 | 28 Weyshaeuser...| 3654
4358 | 2958 Wheelabratr F... 4558
2373 | 1576 Wheeling Pitts...| 1814
2075 | 1451 Whirlpool ....| 2073
2858 | 1814 Whirlpool ....| 2653
9 | 372 White Motor...| 4569
2612 | 19 Whittaker...| 2554
1651 | 114 Wickos ...| 1554
4014 | 2654 Williams Co...| 3478
3016 | 24 Winn-Dixie Str...| 30
314 | 114 Winnebago | 214
2614 | 1918 Wise Eloc Power | 2514
2851 | 2114 Woolworth ...| 2853
3952 | 3012 Wrigley ...| 5112
914 | 612 Wyly ....| 5112
915 | 612 Wyly ....| 5112
1712 | 12 Yellow Frt Sys...| 5594
1715 | 12 Yellow Frt Sys...| 5975
1278 | 814 Zapata ...| 3975
1278 | 814 Zapata ...| 3975
1278 | 814 Zapata ....| 3975 27% 14% 36 50% 50% Price High Low July 18 280 Cle Bancaire.... 385 Cie Gen Eaux.... 143 Cofimeg .... 157 CCF 56 Crousot Loire ... 229 CFP 214 DNEL ... 602 Dumez ... 316 Ferodo ... 366 455 330.2 5.00 4,10 ANZ Group....... McGraw Edison, 27% McGraw Edison, 27% McGraw Allo 153 :69 0.80 Acrow Aust..... 0.95 Alistate Expl ..... 1914 Genuine Parts. 301, Georgia Pac. 43 Georgourge 0.95 Alistate Expl...
1.00 Ampol Pet...
1.80 Assoc Pulp Pap.
0.24 Audimco
1.80 Aust Cons Ind...
1.84 Aust Mat Inds...
1.84 Aust Mat Inds...
1.84 Aust Paper...
2.70 Sank NSW...
1.20 Blue Metal...
0.98 Sond Hidgs...
2.14 Boral...
1.80 B'ville Copper...
1.85 Brambles Inds...
2.07 Bridge Oil Cincipnati Mil. 29 351: 74: 25: 36: 26: 26: 21: 27: 45: 39: 39: McGraw-Min. McLean Truckq.. Media Goni Media Goni SP3 Technology.
Safeco...
Safeco...
Safeco...
St. Joe Minns...
St. Louis San F...
St. Pani Cos...
St. Regis Paper...
Santa Fe Inds....
Santa Fe Inds....
Saut Invest...
Saxon Inds 1936 Gity Investg
2936 Clark Equipment
Clave Cliffs Iron.
6 Claves
Gerow
13 Caca Cola.
4 Caca Bd. Ny
11: Colgate Palm
164 Collins Aikman
S51c Celt Inds Giddings Lewis. 267 Gen Occidental... 356.3
52.5 Imotal... 95
224 Lafarge... 254 546
600 L'Oreal... 1,710
56 Machines Buil... 56
7,260 Matra... 9,980
713 Michelin B... 763
461 Moet Hennessy... 530 Gillette 358 Global Manne. Marcanule Sts. Goodyear Tire .. irace.. **AUSTRIA** Indices July 18 Price Financial Rand US\$0.85 NEW YORK -DOW JONES (Discount of 35%) 556:Creditanstalt. 356;Landerbank.... 265;Perimooser .... 100:Semperit 230:Stoyr Damler... 300;Veltscher Mag 1960 Since Crapil't'r July July July July July High Lew · High Low i Julyi18 STRALIA austrealia Sydney A.º Ord. 1836 33 - 520,58 - 915,51 - 908,50 - 905,17 - 947,47 - 714/21 Metars & Milnis - 1386 89 - 5755,42 5720,95 5586,67 5616,64 - 6680,95 - (14/2) 1980 4.65 Conzinc Riotin
2.05 Costain...
2.10 Crusader Oil...
2.10 Crusader Oil...
2.20 Elder Smittl GM.
0.29 Endeavour Res.
1.38 Gen Prop Trust...
2.20 Hameraley...
2.60 Hartogen Energy.
0.85 Hooker High Low 2.55 1.09 Accelts
4.67 2.46 Banco Brazil ...
5.30 1.90 Belgo. Min ...
2.79 1.40 Loga Amer ...
6.10 1.57 Petrobras PP ...
4.00 2.55 Souza Gruz ...
7.20 4.80 Unip PE ...
11.90 2.93 Vale Rio Doge ... AUSTRIA Credit Aktien 4,1 (2) Transport . 509.50 535.05 295.57 295.57 295.57 295.52 503.40 227.60 309.60 12.25 (167) 277.50 157.7 40 16 7 627 (17) 27.50 157.7 40 16 7 627 (17) 27.50 157.7 40 16 7 627 (17) 27.50 157.7 40 16 7 627 (17) 27.50 157.7 40 16 7 627 (17) 27.50 157.7 40 16 7 627 (17) 27.50 157.7 40 16 7 627 (17) 27.50 17. BELGIUM/LUXEMBOURG SELGIUM elgian SE 51,12 65: July 18 **GERMANY** Trading Vol 000's: 58,840 48,858 49,146 60,928 46,508 65,428 DENMARK Copenhagen SE 1.175: 82.71 82.39 82.20 82.20 86,74 (2/1) High ' Low 0,85 Hocker ..... 2,05:ICl Aust ..... 74.78 (5/8) 2,450 1,640 ARBED... 5,400: 5,000 Bang Ind a Lux 2,170 1,820 Beksert B... 1,120: 900 Cimont CBR... 385: 220 Cockerili July 18 Price Dm. Day's high 950.80 low 914.42 FRANCE High | Low TRANSCE CAC General (C3:12-6): 106.90 107.4 107.5 107.6 1 15.2 (14/2) and Tendance T3:12:72: 108.10. 108.2: 108.3 109.5 110.7 (8:7) TEL AVIV 0.27;Kia Ora Gold 0.55 1.10 Lennard Oil 1.50 3.75 MM 4.75 0.60; Meekatharra 6.80 0.15; Meridian Oil 0.24 0.15 Meramar Min 0.44 0.35 Monarch Pet 0.88 1.45; Myer Emp 1.49 2.32; Mat Bank 2.65 3.10; News 2.75 July 11 July 4 June 27 Year ago approx 89 585 220 Cockerill 2,280 1,850 EBES 6,280 1,5060,Electrobel 4,210 2,800,Fabrique Nat 2,600 2,205,GB-Inno 1,525 4,500 EB 1,250 GB (Bruxi) 880 Gevaert 3,195 2,480 Hoboken 1,700 1,440 Intercom 6,510, 5,700 Fan Holding 4,010 5,200 Pan Holding 1,000 EBES 6,000 EBES 6,00 Prices Chance Ind. div. yield 🖫 🕒 Company 6.38 7.20 0,39 5.93 5.94 7.20 0.50 Meekatherra
0.39 0.15 Meridian Oil
0.50 0.18 Metramar Min.
1.30 0.53 Monarch Pet.
1.72 1.45 Myer Emp.
2.79 2.32 Nat Bank.
2.95 2.10 News
1.56 1.05 Nicholas Int.
4.36 2.80 North Bkn Hill
5.00 2.80 Cashridge.
2.90 0.68 Otter Expl.
9.50 5.10 Pancon
0.29 0.14 Pan Pacific.
2.45 1.72 Pioneer Conc.
2.45 1.72 Pioneer Conc.
0.55 0.26 Queen Marg t G.
2.85 1.93 Reckitt & Coln
14.60 1.00 Sieligh (H.C.)
0.46 0.29 Southland M'n's
0.80 0.39 Spargos Expl.
2.70 1.91 Thos Nationwide
2.80 1.65 Tooth
5.50 3.70 Utah Mining
1.95 0.25 Valiant Consott
0.70 0.55 Waltons
1.52 1.70 Woodside Petrol.
1.58 1.42 Woolworths.
4.15 2.75 Wormald Int.

SINGAPORE STANDARD AND POORS and Finance

Bank Laumi is largel 794 + 47

IDB Bankholding 873 + 51

Bank Happalim Br. 899 + 9

Union Bank Israel Br. 719 + 35

Urid Mizrehi Bank 592 + 37

Urid Mizrehi Bank 87, 705 + 17

General Mort Bank Br. 891 + 3

"Tefahot" Isri. Mr. Bk. 864 + 70

Land Development Africa Israel Inv. IP10 1,090 +105

Israel Land Dev. Br. 484 + 77

Property & Building 587 + 46

Public Utility 1980 Since Cmpil't' July July July July July July 18 17 16 15 14 11 High Low High Lew ANP-CBS General (1970) 86.7 85.9 65.3 85.0 97.0 (11.2) ANP-CBS Indust. (1970) 65.6 64.7 64.0 63.5 68.2 (1171) 74.0 (27/5) 58.2 (28/6) 2.32 Nat Bank 2.65
2.10 News 2.75
2.80 North Skn Hill 3.55
2.80 Cakbridge 4.00
0.68 Otter Expl 1.70
5.10 Pancen 7.00
0.14 Pan Pacific 0.37
1.72 Pioneer Conc. 2.30
0.25 Queen Marg t G. 0.46
1.93 Reckitt & Colm 2.40
5.90 Sentos 3.70 Clinitiust is ... 137,69 127,05 124,83 134,44 135,31 130,63 137,80 111,62 157,90 5.22 1877 (27.7) (12.7) (27.7) 5Composite 120,04 121,44 (19,55 113,30 120,03 117,84 122,84 99,22 125,53 4,42 (18,7) (18,7) (18,7) (18,7) (18,7) Hang Seng Bank (5):7;54: 1050.64 1077.74 1059.89 1997,04.1 (04,56 /14/7) 5,000 5,700 2,420 1,476 3,300 2,590 2,515 738.9 (19:5) 6,250: 4,600 Petrofina ... 5.810 5,000 Royale Beige... 2,895 2,335 Soc Gen Band. 1,750 1,330 Soc Gen Beige 3,530 3,000 Sofina..... July 9 / July 2 Year \$40 (approx Ind. div. yield S 4.88 4,97 5.07 5,32 JAPAN 2.02 7,90 7.22 7.87 ..... 1,320 722 .... 1,354 10.08 10.11 10.13 8.90 Long Gov. Eand Yield larael Electric Corp. ... 683 Investment Companies
Bank Loumi Invest. ... 556
"Clai" Israel Invest ... 875
Discount Invest (NT) ... 467
Commercial and ... NORWAY Rises and Falls July 16 July 17 July 1 126.6: 109.1 Hoschst. 117.4 37.8 21.5 Hosch. 26 460 226 Holzmann (P). 450 149.5 112 Horten. 143.5 170 139 Kallund Salz. 166.5 258.5 218 Karstadt. 232 Osto SE (1 1/72: 128.41 127.82 125.85 125.77 144.78 (14/2) 1 10.12 (28/6) 1,877 1,903 1,069 855 439 659 SINGAPORE Issues Traded 1,901 July July July July 18 17 16 15 High Low 564.16 561,28 557.05 560,22 564,58 (11/7) DENMARK 968 577 Industrial Alliance Tire & Rubber 2.520
Etco Br. 510 Milds 50+ 69.8469.5368.5463.35 69.84 55.30 SOUTH AFRICA 754.5 755.3 711.8 588.6 748.5 (8/7) 657.7, 556.8 563.1 550.5, 557.7 (18/7) Coid :1950: Industrial :1956: July 18 466,0 (28/1) Etco Br. 510 + 34
Argemen Toxtile Br. 360 + 35
"Ats" Textile "B" 211 + 36 220,4 45,8 60,5 333,4 136.5: 108 Andelsbanken... 108 317 216 Baitlea Skand... 316 79.5 30.5 Burm & Wain.... 44.26 121 102.75 CopHandelsbank 102.75 261.75 189.75 D. Sukkerfab... 253.5 120 100.75 Danske Bank ... 101 126.5 102.75 East Asiatic... 106 182.5: 135 Financhanken... 142.5 252 206 Forenede Brygg. 247 "Ats" Textile "B" 211 22 Assis 454 23 Elta 871 +135 MONTREAL SPAIN . Principal SINGAPORE 102.84 102.80 103.22 105,68 105,60 (15/7) Sadrid SE (26:12 79) 98.76 (18/5 Righ Low 87.5 204 70 Lufthansa... 80 193 \$22,27 £81,27 £87,77 £66,17 £2£,20 (29.2) \$25,21 (27.5) \$61,52 \$56,50 £57,35 657,74 \$76,50 (23.2) (28.90 (27.3) ... 1. Parair t 1980 | Column | C SWEDEN July 18 354,72 (17/1, High Low. 4.24 2.48 Boustead Bhd. 5.86 5.90 2.60 Cold Storage. 3.74 6.15 4.46 DBS. 4.98 8.15 5.70 Fraser & Noave. 7.25 2.36 1.79 Haw Par 2.35 3.34 2.19 Inchoape Bhd. 3.34 12.00 7.95 Malay Banking 11.90 7.90 4.62 Malay Braw. 5.35 12.00 7.15 OCBC 12.00 2.16 1.45 Pan Elect. 2.18 5.40 2.56 Simp Darby. 5.36 7.50 3.82 Straits Trdg. 7.15 4.46 3.50 UOB. 4.34 عَلَوْلَ إِلَى TORONTO Composite 2150,4 2155,9 2117,9 2115,0 2152,5 (25/2) 1702,5 27,5) paction. · çbigüçən NEW YORK ACTIVE STOCKS Capital Intl. (1 i 70) 148.0 146.5 146.1 148.6 (18/7) Change Spanish prices, Page 12. 202 283.4 56.3 150 152 272 174.5 5 74% 15% and Poors—10; and Toronto—1.000; the last named based on 1975. † Excluding bonds. \$400 industrials. § 400 industrials plus 40 Utilities, 40 Financials and

in con وتزعلنين Carrer . Price 14

هكذامن الدُميل

# CONTRACTS AND TENDERS

SOCIALIST PEOPLES LIBYAN ARAB JAMAHIRIYA SECRETARIAT OF LIGHT INDUSTRIES, POST BOX NO: 4388 TRIPOLI/SPLAJ

PUBLIC TENDER

FOR PUBLIC TENDER NO: 1/80 FOR THE ESTABLISHMENT OF ONE ULTRA-MODERN FULLY AUTOMATIC PLANT FOR THE PRODUCTION OF INDUSTRIAL AND MEDICAL ALCOHOL, VINEGAR AND DRY BAKERY YEAST AT EL KHOMS / SPLAJ

The Tanders Commission of the Secretariat of Light Industries invites Public Tenders for the establishment of one ULTRA-MODERN fully automatic Plant for the production of Industrial and Medical ALCOHOL, VINEGAR AND DRY BAKERY YEAST at EL KHOMS / SPLAJ, in which specialised international companies with previous experience in the establishment of such works are invited to participate in accordance with the following conditions:—

The General Conditions booklet, the technical specifications and Tender Documents to be drawn from the Secretariat of Tenders Commission of the Secretariat of Light Industries, at its offices at Al Fatch St. during official working hours against a cost of (L.D. 100) One hundred Libyan Dinars non-recoverable.

Tenders shall be submitted on Tender Documents prepared by the Secretariat indicated in Item (1) of this notice signed by the participants and shall be delivered in closed envelope sealed by seal, wax which in turn shall be placed in another wax sealed envelope. The name and address of the Secretariat of Light Industries and the number of this Tender shall be written on the Inner envelopes with an indication that they contain a Tender for the establishment of One ultra-modern fully automatic plant for the production of Industrial and Medical Alcohol, Vinegar and Dry Bakery Yeast at El Khoms.

It shall be sent by registered mail, postage prepaid or shall be delivered by hand to the Secretary of the Tenders Commission of the Secretariat at Al Fateh St. (El Saat), Tripoli/Splai, in the Secretariat's offices during official working hours. Such delivery shall be against a receipt to contain the name of Tenderer, and date and hour of delivery. However, in all cases, the Tenders shall be delivered not later than 12 o'clock noon of 1/10/1980. The Tenderer shall enumerate in his Tender his previous experience in executing similar

work and shall support such data by sufficient instruments and documents which should be attached to his Tender. Furthermore, he shall attach to his Tender all instruments,

documents and licences permitting him to perform such work.

4. The Tender shall remain valid and binding to the Tenderer who may not withdraw it. as from date of its delivery by Tenderer and for a period of (120) one hundred and twenty days, which shall be calculated as from the last date indicated for acceptance of Tenders (opening of envelopes date), Indicated in item (2) of this notice.

The Tenderer shall attach to the documents of his Tender a provisional guarantee amounting to not less than 2% (two percent) of the total cost of the Tender. Tenders not accompanied by a full provisional guarantee shall not be considered. Such guarantee shall not be considered. Such guarantee shall not be considered. Such guarantee shall be either in cash paid to the Secretariat treasury or by an accepted cheque certified by the issuing Bank or by a letter of guarantee issued by a Local Bank. The said letter of guarantee shall not be subject to any reservation or condition and shall contain a stipulation as to its being irrevocable and that it is payable at the Secretariat's first demand irrespective of any contestation by the body who delivered it or any third party. The duration of effectiveness and validity of the said letter of guarantee shall continue for at least thirty days following the expiry of the period defined for the effectiveness of the Tender by which the Tenderer is bound.

The successful Tenderer shall deposit in the Secretariat's treasury within a period not exceeding (20) twenty days as from the date of notifying him of acceptance of his Tender, a final guarantee equivalent to 10% (ten percent) of the total cost for which the Contract is adjudicated.

This guarantee shall be submitted in the same mode and procedures adopted for the provisional guarantee and in the manner defined in the General Conditions of this

Tenderers or their officially authorized representatives may attend the envelope opening session to hear reading of prices.

The provisions of the purchasing and contracting work regulation in use by the Secretariat shall apply to this Tender and to the Contract to be concluded with the Tenderer for whom the Tender adjudicated and with whom it shall be decided to conclude a Contract.

Tenders arriving after the defined time for opening of envelopes indicated in item (2) of this notice or which is not accompanied by a full guarantee fulfilling legal requirements shall not be considered.

The Secretariat has the right, according to its absolute discretion, to accept or reject any tender without indicating reasons.

**TENDER COMMISSION** SECRETARIAT OF LIGHT INDUSTRIES

# PEOPLE'S DEMOCRATIC REPUBLIC OF YEMEN

Prequalification to Tender for Completion of the Construction of Al-Mukalla Harbour

The Port of Aden Authority of the People's Democratic Republic of Yemen Invites experienced contractors to apply to be qualified to submit Tenders for the completion of construction and maintenance of Al-Mukalla Harbour. The works have been partially completed (about 25 per cent) by a contractor (now in liquidation) and taking over existing work (both permanent and temporary), equipment and materials will form part of the contract.

The whole of the works comprises, but is not necessarily limited to, the following:

—Taking over permanent and temporary works, equipment and materials provided by a contractor (now in liquidation) the legal ownership of which is entirely vested in the employer.

-Completion of the wave protection works of the harbour; two quay walls for the berthing of general cargo ships of up to 10.000 d.w.t., one 175 m, long and 10 m. depth of water, known as Berth No. 1, and the other 170 m, long and 10 m depth of water, known as Berth No. 2; a shallow water quay 155 m, long for berthing fishing vessels up to 200 tonnes capacity, known as Fishing Quay; related dredging of quay wall trenches and the harbour basin; reclamation of the on-shore areas behind Berth No. 2 and the Fishing Quay; and outlets and ducts for various services to quays. In addition to the above the employer invites contractors to include in their Tenders for certain continual works invites contractors to include in their Tenders for certain optional works identified in the Tender Documents.

-The works described are a part of the overall harbour works being or to be executed by others consequently time is of essence.

—Completion is required as follows:

Section 1. - 194 days -Fishing Quay and other related works.

Section 2, - 318 days - Civil works to area of fishmeal plant, waste water pump station, storage tanks and weighbridge (provisional

Completion — 638 days — Total harbour works.

Contractors interested in submitting Tenders are invited to collect the Documentation for Prequalification from the offices of:

Yemen Ports Authority, Aden, People's Democratic Republic of Yemen, or Dar Al-Handasah Consultants (Shair and Partners) UK Ltd.

91 New Cavendish Street, London, W1. United Kingdom

Telex: 27187 Darsah G Telephone: 01-637 8622

and return it in two copies, one to each of the above addresses, duly completed and signed not later than 30th August, 1980. Only contractors who have been qualified will

# **NIGERIAN PORTS AUTHORITY**

(1) Pilot Cutters

(2) Harbour Launches

(3) Mooring Launches

EXTENSION OF CLOSING DATE

The closing date for the submission of tenders for the purchase of PILOT CUTTERS, HARBOUR LAUNCHES and MOORING LAUNCHES is hereby extended from July 15 1980, to August 1, 1980.

This tender was previously published as NPA Notice No. 3238 dated May 20, 1980.

> J. E. KALU Secretary to the Authority

NPA Notice No. 3245

\* : CE :

Dated 14th July, 1980

### THE NICERIAN PETROLEUM REFINING COMPANY

PORT HARCOURT, NICERIA

The Nigerian Petroleum Refining Company Limited, Port Harcourt, Nigeria intends to carry out the refinery biennial overhaul in February 1981. Maintenance work will be scheduled for a maximum of 30 days depending on the final work-load.

The jobs to be done include:

1. Repair to flash zone and associated trays of 15ft, diameter fractionating column.

2. Plantand pipe-line modifications. 3. Repair to vessels.

4. Heater brickwork.

5. Heat exchanger tube bundle pulling, cleaning and refitting.

The Company will provide all materials and spare parts required, but the Contractor will be expected to provide all necessary machines, equipment and tools he requires for a successful execution of the work. Interested Contractors are invited to apply for the tender documents before 15th August 1980, either by writing to or by telexing:

THE SECRETARY, NIGERIAN PETROLEUM REFINING COMPANY LIMITED, P.O. BOX 585, PORT HARCOURT, RIVERS STATE, NIGERIA. TELEX 61166.

Perusahaan umum listrik negara AGENCY OF THE MINISTRY OF MINES AND ENERGY OF THE GOVERNMENT OF THE REPUBLIC OF INDONESIA

### INVITATION TO TENDER JAVA 500 KV TRANSMISSION SYSTEM

Sealed proposals covering supply delivery and erection of materials and equipment for 500 kV Overhead lines associated with the Java 500 kV Transmission System, will be received until 10.00 am Western Indonesia Standard Time, on 2nd December 1980 and publicly opened at 11.00 am on the same day at The Head Office of Perusahaan Umum Listrik Negara, Jalan Trunojoyo Blok M I/135 Kebayoran Baru, Jakarta —

The 500 kV Overhead lines consist of two lots: Lot 1 : South Bandung - Cirebon (121 km long) one single circuit.

Lot II: Cirebon — Ungaran (235 km long) one single circuit.

Tenderers may propose one or all of the above complete lots.

All tenderers shall be subject to the condition that all proposed equipment and materials shall have their source and origin in countries which are associated with the International Bank for Reconstruction and Development and Switzerland. In order that his proposal may be considered, Tenderers shall quote their experience in carrying out projects of a similar complexity and magnitude. In case of consortium, evidence of the experience of the separate members of the consortium shall also be provided, together with information on the experience of members working together. In

particular, evidence of at least 5 years experience in the construction of bundle conductor transmission lines at voltages of 400 kV or above shall be provided and the lines should have been in successful operation at least for one year. Similarly, at least 5 years experience by the quoted suppliers of the manufacture and testing of towers, conductor and insulators of types similar to those proposed by the Tenderer shall be

Tenderers must submit data with their proposals to establish their qualifications for performing the work. Proposal not accompanied by this data may be classified as

Prospective Tenderers may examine and obtain personally or through their representative copies of the specifications and documents from PLN after 23rd July 1980 and upon payment of Rp 375.000, which is not refundable, at: PERUSAHAAN UMUM LISTRIK NEGARA, AGENCY OF THE MINISTRY OF MINES AND ENERGY, DIRECTORATE OF PLANNING, JALAN TRUNOJOYO BLOK M (/135, KEBAYORAN BARU, JAKARTA.

This project will be financed from the loan proceedings of International Bank of Reconstruction and Development under Loan No 1872 IND. PLN reserves the right to accept the proposal which, in its judgement, is the lowest responsive and best proposal submitted by a qualified Tenderer, to reject any and all proposals, and to waive irregularities and informalities in any proposal that is submitted. Proposals received after the specified time of closing will not be considered.

Further information regarding the above work can also be obtained from the Engineer, Merz and McLellan, Amberley, Killingworth, Newcastle upon Tyne NE12 ORS,

### SUDAN RAILWAYS STORES DEPARTMENT

Contract No. 5251 SUPPLY OF ONE HEAVY DUTY HYDRAULIC PRESS . FOR PRESSING WHEELS ON AXLES

Contract No. 5252 SUPPLY OF 2 (TWO) TYRE BORING MACHINES

Contract No. 5253 SUPPLY OF ONE GIBSON RING ROLLING MACHINE

NOTICE

(1) Controller of Stores, Suden Reliways, Athers, invites tenders for the supply of one heavy duty hydraulic press for pressing wheels on axies; 2 (two) tyre boring machines and one Gibson ring rolling machine.

(2) Tenderars should quote for each tender separetely and each tender should be out in a separete shvelope.

(3) Details and specification for each tender can be obtained from the Office of Controller of Stores, P.O. Box 65, Arbera, or from Stores representative, Khartoum, tel: 74783 on submitting a written application bearing 60 piestres examp duty and payment of £53.000 for one copy of details and specification for Contract No. 5251, £52.000 for one copy of details and specification for Contract No. 5252 and £52.500 for one copy of details, specification and drawings for contract No. 5255.

(4) The closing date fixed for acceptance of tenders in this Office is Thursday, 28th August, 1980, at 12.00 hours noon. OFFICE OF CONTROLLER OF STORES

SUDAN RAILWAYS STORES DEPARTMENT

Contract No. 5255 SUPPLY OF 4 (FOUR) 10 TONS ELECTRIC OVERHEAD CRANES Contract No. 5267 SUPPLY OF 2 (TWO) 20 TONS ELECTRIC OVERHEAD CRANES NOTICE

NOTICE

(1) Controller of Stores. Suden Raifways. Atbars. invites tenders for the supply of 3 (threaders for the supply of 3 (threaders for the supply of 3 (threaders). A (four) 10 tons electric overhead cranes, 4 (four) 10 tons electric overhead cranes.

(2) Tenderers should quote for each tander separately and each tender should be put in a separate onvelope.

(3) Details and specification for each contract can be obtained from the Office of Controller of Stores. P.O. Box 65, Atbars. or from the Stores representative. Khartoum. tel 74793, on submitting a written application bearing 50 plastres stamp duty and payment of £3,000, for one copy of details and specification for each contract.

(4) The Closing date fixed for occeptance of tenders in this Office is Saturday; 30th August, 1990, at 12.00 hours noon.

OFFICE OF CONTRIPOLER
SAAD/MMA.

### INVITATION TO TENDER

SAUDI ARABIAN KINGDOM

A Saudi National Corporation invites FOREIGN INTERNATIONAL COMPANIES to submit their OFFERS at an earliest convenience, in respect of the following ITEMS supported with all statements and catalogues

MARBLE FACTORY -- Cutting & Polishing. **AUTOMATIC PLANT for Mosaic Tiles.** 

CEMENT BLOCKS FACTORY - Different

**ELECTRIC POWERFUL GENERATORS — To** run the above FACTORIES with special consideration of future expansion.

What is required for the above items is submission of offers along with office and residence compounds.

### **INFORMATION REQUIRED:**

Production capacity of each factory. Name of factory producer - brief literature as

far as experience and reputation are concerned, OFFERS should include cost of factory (delivery at site with installation).

Special offer to be submitted in respect of all FACTORIES maintenance.

Seperate offer for running the said factories (technically & administratively) with a statement of number & qualities of manpower required for

OFFERS should be sent to the following address:-P.O. BOX 484

ABHA - Southern Region SAUDI ARABIAN KINGDOM TEL: 224 6277, 224 6306 TLX: 901019 SJ

"INTEREXPORT" OOUR Metali, oprema i inzenĵering, 11000 Belgrade, Yugoslavia, Kolarceva 8, has pleasure in advising its

NAFTAGAS—NAFTNA INDUSTRIJA SOUR—NOVI SAD NAFTAGAS—GAS—RADNA ORGANIZACIJA TRANSPORTA, PRERADE, PRIMENE I PROMETA GASA, NOVI SAD, NARODNOG FRONTA 53,

of the following: INTERNATIONAL INVITATION TO TENDER TO SUPPLY EQUIPMENT FOR GAS PIPELINES

The industrial organisation NAFTAGAS—"GAS"—Novi Sad, was given a loan in various currencies corresponding to US\$9.4 million by the international Bank for Reconstruction and Development to cover the cost of the project known as the "Naftagas gas pipeline project" for the storage, distribution and transport of natural gas in Yugoslavia. This loan is provided for payments resulting from the contract(s), for which this invitation to tender in open competition is published. Companies and organisations, who have the qualifications, experience and reputation enabling them to supply the following material of Yugoslavian port or free Yugoslavian border, are requested to submit tenders in this open competition for:

(a) Pipes of 1" to 28" ca. 430 km or 25,000 tons.

(b) Valves of 72" to 24".

(c) Fittings of 1" to 30".

(d) Equipment for gas pipeline from 2" to 24".

(e) Main measuring and control stations and consumer measuring and control stations.

(f) Insulating material.

The funds provided by the loan are to be used for corresponding payments ensuing from the contracts, which are signed as a result of this invitation to tender.

Suppliers of equipment from member countries of the International Bank and from Switzerland with a good business reputation and with at least 5 years' exparience in the production and supply of this equipment, who are able to provide quarantees from wall known banks or insurance companies, are requested to submit offers for items of equipment, which

companies, are requested to submit offers for items of equipme are the subject of the following tenders:

Number and Description of the tender

Tender for pipes YU-916-IT-12.0019
Tender for valves YU-916-IT-12.0020
Tender for fittings YU-916-IT-12.0021
Tender for gauipment for ges line YU-916-IT-12.0022
Tender for GMRS and MRSP-XU-916-IT-12.0023
Tender for insulating material YU-916-IT-12.0024
tender documents for the international invitation to need from:

obtained from:

NAFTAGAS—GAS—RZ za investicije

Narodnog fronta 53
21000 Novi Sad Yugoslavia
on making the corresponding payment.

The payments are to be made out to Account No. 65700-620-219-82170-111 /283 at the Volvodienska benke, Novi Sad, endorsed as follows: for the purchase of tender documents.

Those wishing to submit a tender from Yugoslavia can obtain the above tender documents on making the corresponding deyments in dinar, which nes to be made out to account No. 65700-607-000-885 at SDK—Novi Sad hranch.

hranch.
The payments will not be refunded.
The tender documents can be obtained during working hours from 20.1990 to 20.7 1990.
Time limit for submitting an offer: 20.9.1980. The option to supply must not be less than 6 months from the date on which the tender is submitted. Any further information can be obtained from Novi Sad, telaphone number 2017/78-77, telev number 14-398 or Beigrade at "Butanas," RO za Promet, orimenu i transport gasa sa N.sol.o. OOUR, Djure Djakovica 24 a, telaphone mit [95-30], televaline mit [95-30], tel

### YEMEN ARAB REPUBLIC YEMEN GENERAL ELECTRICITY CORPORATION **AL MUKHA POWER STATION**

In September, 1980, tenders will be invited from major manufacturers for the design, supply and construction of a 150 MW oil and gas fired power station, to be built near the port of Al Mukha in the Yemen Arab Republic. Boiler/turbine generator units will be in the size range 30/40 MW. The contract will be placed on a complete turnkey basis, inclusive of all Civil Works. Tenderers will be asked to offer proposals for financing the project.

Pre-qualification of all Tenderers is a mandatory requirement. Any contractor who is interested in bidding for the above project and who can demonstrate proven ability and experience in the supply, installation and operation of a modern thermal power station in the size range similar to that under consideration, should apply, in writing, to Kennedy and Donkin, Consulting Engineers, Chatsworth House, 19. Lever Street, Manchester, M1 3LT, England, quoting reference YEM 058, not later than Monday. 11th August, 1980, for the pre-qualification questionnaire.

### CONTRACTS AND TENDERS

appears every Monday

Rate: £19 per single column centimetre (minimum three centimetres)

### PENDING DIVIDENDS

### Memorex goes into the red

By Our Financial Staff

MEMOREX CORPORATION. the U.S. computer equipment maker, reports a loss of \$21.7m or \$3.11 a share for the second quarter of 1980, compared with a net profit of \$10.6m or \$1.32 a share in the same period last Turnover was \$185.7m, against \$181.3m.

The company's loss for the first six months was \$20.6m compared with net earnings of \$22.3m or \$2.79 a share in the same period of 1979. Sales in the first half rose to \$370.6m from \$359,2m.

Memorex said that in connection with decisions to phase out certain older products it established second quarter reserves of about \$6m for writedowns expected potentially excess inventory and related assets and for

expected operating losses Additional inventory reserves of \$3.5m were also established for adjustments of inventories in excess of established requirements, which are partially offset by a reduction in reserve requirements based on the recent results of physical

### Setback for Borg Warner Australia

By Our Sydney Correspondent RISING manufacturing costs and consolidation of earnings combined to reduce the earnings of the automotive parts maker, Borg Warner (Austra-lia) in the June half-year. Profits of the group fell 2.3 per cent from A\$3.7m to A\$3.6m (U.S.\$4.2m), despite a 19 per cent sales increase to A\$\$4.55m (U.S.\$99m)

The interim dividend, however, has been raised from 9 cents a share to 10 cents. The directors said that rising costs and the incorporation of the iron foundry into one plant had SOUTH AFRICAN STEEL

# Dunswart picks up pace

BY JIM JONES IN JOHANNESBURG

DUNSWART, THE troubled South African iron tinue. The advance will be and steel producer, is making a helped by a 14 per cent confast recovery, helped by strong trolled domestic steel price indomestic demand for steel. For crease granted on June 20. the six months to June 30, the company reports an operating ganisation inaugurated a couple a sales increase to 243,000 year and with R8.61m for the whole of 1979.

Before a management reor-

profit of R5.11m (US\$6.7m), of years ago by the 46.6 per tonnes of rolled sections and compared with R3.19m for the cent controlling shareholder, 70.000 tonnes of rolled billets. corresponding period of last General Mining. Dunswart's put a figure on expected second has necessitated a significant of 39.6 cents per share. In 1979 half results, they are confident infusion of additional capital. a dividend of 10 cents was paid

once that the improvement will con- However, that renewal programme is now nearing completion and the management has concentrated on raising melt shop production to an annual 380,000 tonnes, allowing

The company has resumed plant had not been replaced to payment of interim dividends time. This adversely affected and has declared an interim of While the directors do not operations and earnings, and 5 cents from first-half earnings

# Mareeba discloses White deals

BY JAMES FORTH IN SYDNEY

MAREEBA MINING has dis- cent, or 440,024 White shares closed that it purchased slightly comes about because Mareeha it held 5.6 per cent of White's

more than 10 per cent of the sold the shares to the Japanese capital of White Industries, the group Mitsubishi Development that Mareeba for a short period

White Holdings, the company formed by the White family, is offering A\$20 a share and Endeavour Resources, a mem New South Wales Group, in a four days after it acquired ber of the group headed by Mr. three-day share market contest them. At the time. Mitsubishi Alan Bond, is offering A\$21 a earlier this year which saw the price of White shares spiral shares at prices up to A\$30 a A\$200m (U.S.\$230m). Mareeba (U.S.\$35). Mareeba in March shares at its average purchase had admitted to buying White shares, and had also said that it held 56 markets. But Mareeba sold the shares at its average purchase have said that price of almost A\$17 for the parcel. The disclosure means it held 56 markets at its average purchase have issued their lindustries have likely and lindustries have likely and lindustries have likely and lindustries have a profit of between the lindustries have a profit of between the lindustries had admitted to buying White lindustries at its average purchase had admitted to buying white parcels and had also said that the lindustries had also said that the lindustries had been also said that the lindustries had also said that the lindustries had also said that the lindustries had been also said the lindustries had also said the lindustries had been also said the lindustries had also said the lindustries had been also said the parcel. The disclosure means tries have issued their part B that Mareeba for a short period statement on the Endcavour pital. held slightly more than 10 per bid, and said they had decided. The difference of 4.67 per cent of White's capital. to make no recommendation.

### Swan Brewery trust plea

BY OUR SYDNEY CORRESPONDENT

Government to extend to it a the time from the taxation office period of grace relating to its The legal complexities had proposed, innovative, linked delayed the introduction of the property trust. The Govern- trust. Swan directors, in a subdeter companies from spinning the Treasurer, said that conoff trusts to reduce company tax, siderable expenditure had been by taxing the trusts at the prevailing company tax rate.

The full tax rate will not apply until the 1983-84 income groups to recoup costs. Swan announced plans for its established trusts.

SWAN BREWERY Company trust in mid-December, and has asked the Australian obtained a written clearance at ment has announced plans to mission to Mr. John Howard, incurred tothe point where the scheme was about to be implemented.

The Swan directors have asked year, however, for trusts estab- that the group receive the same lished by July 11, to allow such treatment afforded to those companies whic hhave already

### **SOCAL** lifts spending plans

SAN FRANCISCO-Standard Oil Company of California (SOCAL) has increased its 1980 capital and exploratory spend-ing programme to \$3.4bn, from the \$3bn programme is announced in April, and to

level \$800m above that planned in January. The increases had been made possible, it said, by higher earnings and improved incentives for new investment. About two-thirds of the \$800m will be devoted to U.S. petro-leum products, including the drilling of 20 per cent more wells than in 1979.

Interest rates can be expected

gaining some assistance from the relative weakness of both the

rates the lira has improved against the dollar since the beginning of July, and is also

marginally firmer in terms of the

the weakest members of the EMS

keep the pressure low throughout

7.07 3.75-3.65 pm 5.17 3.15-3.05 pm

6.23 4.53 5.28 2.23 -2.73 0.49 6.63 -1.21 -7.95

# CURRENCIES, MONEY and GOLD

## Nadir for the lira by colin millham

These are unhappy times for deficit in June of L783bn was a have abated since the economic the European Monetary System. worse than the situation last High inflation has always been a problem, but the lira managed to live with this last year, of the EMS. was the strongest currency

cent, but it is the sharp to the weakening of the trade deterioration in the balance of position. payments which has radically Speculation about a devalua-changed the picture. The overall tion of the lira seems to GOLD

French 205 S162-165 50 posos Mexico 5747-752 100 Cor. Austria, \$598-693 \$20 Eagles ....... \$733-738 \$10 Eagles .......

problems. The sharp rise in oil prices over the last year has Inflation remains above 20 per been both inflationary, and led

July 17

(£264-2651<sub>2)</sub> (£265,458) (£263,861<sub>1</sub>

the Italian lira, with the currency slight improvement on the May package from the Government at the firmly rooted to the bottom of shortfall of L3.9bn, but much the beginning of this month. Italian currency gaining some assistance from the situation last Since then the Italian currency gaining some assistance from the has tended to stabilize, helped by a tightening of monetary policy, dollar and the D-mark. Thanks which in turn has led to an to the decline in U.S. interest against the background of a staly's heavy dependence on increase in commendations balance of payments imported oil has made a major prime lending rates. position, and for a long period contribution to the country's At this time of years. increase in commercial banks

At this time of year banking liquidity is increased by the margina D-mark. tion has also been eased by the payment of Government disbursements, although a large keep auction of Treasury bills this the

month will tighten conditions. benefit to the beleaguered lira. OTHER CURRENCIES

4.51:-4.55:<sub>3</sub> 6c.20-66.50 12.81-12.84 1.1005-1.1050 4.13-4.16 115.40-115.90

153 50-168.70

9.69-9.64-; 9.76-9.79 518-525

Personal
Penmark
Isoland
W. G.
Portugal
Spein
Italy
Horway
France
Sweden

-	وجويانات سنت		وجردادة	
July 13	£	s	<u>:</u> !	£ Note Rates
Argentina Peso Australia Dollar Brazil Gruzeiro Finiland Markka Greek Drachma Hong Kong Dollar Iran Rial Kuwait Dinarik D. Luxembourg Fre. Malayeia Dollar New Zealand Dir. Saudi Arab Riyal Sungapore Collar Sungapore Collar Sth. African Rand U.A.E. Ourham	2,0440-2,0480 125,74-126,74 8,541-8,551- 101,064-183,418, 11,65-11,665; na 0,630-0,636 66,37-66,47 5,0800-5,0910 2,4010-2,4060 7,85-7,91 5,0100-5,0210	0.8615-0.8620 55.11-53.51 3.6000-3.6020 42.60-42.75 4.9075-4.9095 n a 0.2664-0.2665 27.96-27.98 2.1400-2.1420 1.6120-1.0130 5.3160-5.3195 2.1110-2.1130 0.7635.0.7640	Belgium	56,50.67,10 12,76.12,86 9,57-9.63 4,121-4,151- 1935-1975 520.525 4,503-4,533- 11,38-11,46 112-115 1623-169-1 9,74-9,81

Rate given for Argentina is free rate. THE POUND SPOT AND FORWARD

2 3740-2 3750 1.45-1.35c pm 2.7360-2.7370 1.23-1.13c pm 4.54-4.55 2"1-13c pm

2.7360-2.7370
4.54-4.55
4.54-4.55
66.37-66.47
17.7c p m
12.83-12.84
1.1013-1.1022
4.16'-4.16'15.60-115.60
15.60-115.60
156.55-168.65
1972-1973
11.41'-11.42'9.63-9.62
9.76'-9.77'29.35-29.40
3.52-3.53
127 conversible lignes. Financi

### THE DOLLAR SPOT AND FORWARD

July 18

Gold Bullion ifine ouncer

Gold Coins

(£2551<sub>2</sub>.2563<sub>2</sub>) | \$624-627 (£259.2601<sub>2</sub> | \$627-630 (£256.864) | \$630.25 (£256.082) | \$627.25

July 13	Day's spread	Close	One month	p.a.	Three	Р
UKt	2.3720-2.3730	2.3740-2.3750	1.45-1.35c pm	7.97	3.75-3.65 pm	n 6.
Irelandt	2.1520-2.1570	2.1550-2.1570	1.00-1.20c pm	6.96		
Canada	1.1510-1.1535	1,1503-1,1533	0.20-0.24c dis	-2.29		
Nothind.	1.9055-1.9080	7.9060-1.9070	0.20-0 30c dis	-1.57		
Bolgium	27 924-27.58	27.96-27.93	11-121 <sub>2</sub> c dis	-5.04		-3.
Denmark	5.3900-5.4000	5.3880-5.3995	31-4are dis	-8.33		-8.
W. Ger.	1.7415-1,7485	1.7465-1.7475	0.06-0.02pt pm	0.27	0.15-0.10 pn	ı Ö.
Portugal	48.66-48.86	48.76-43.85	30-40c dis	~8.69	70-110 dis	-7.3
Spain	71.00-71.15	71.03-71.75	80-100c dis	-15.19	220-255dis	- 13.
Italy	829.30-330.15	829.85-830.15	7-9lire dis	-11.57	25-28 dis	-12
Norway	4.8090-4.8120	4.8102-4.8112	0.1orgpm-G 4dis		0.75-1.25dis	
France	4.0480-4.0625	4.0609-4.0625	0.85-0.95c dis	-2.66	2.75-2.90dis	-2
Sweden	4.1145-4.1175	4.1159-4.1165	1.50-1.65 ore dis	-4.59	5.25-5.40dis	-5.
Japan	219.00-229.30	220.15-220.25	0.65-0.20y dis	-3.95	1.80-1.95drs	-3
Austria	12.36%-12.38%	12.36%-12.37%	1.40-2.00gro dis	- 1.65	4.75-6.50dis	-1:
Switz.	1.6030-1.6120	1.6105-1.6115	0.63-0.53c pm	4.51	1.60-1.55 pm	3.
	and Ireland a	re grapted in t	J.S. currency 1	Forward	premiums 1	nd

FT LONDON INTERBANK FIXING (11.00 a.m. JULY 18)

5 month U.S. dollars	6 month U.S. dollars				
bid 9 1:4 ; offer 9 5;5	bid 9 1/2 offer 9 5:8				
the second of the desired	التراجي والمراجع				

The fixing rates are the arithmetic means, rounded to the nearest one-sixteenth, of the bid and offered rates for \$10m quoted by the market to five reference banks at 11 am each working day. The banks are National Westminster Bank Bank of Tokyo, Deutsche Bank, Banque Nationale de Paris, and Morgan Guaranty Trust.

Six-sorth forward dollar 5.40-5.30c pm. 12-month 7.47-7.37c pm

### **EURO-CURRENCY INTEREST RATES (Market Closing Rates)**

July 18	Sterling	U.S.Dollar	Canadian Dollar	Dutch Guilder	Swiss Franc	West German	French Franc	Italian Lira	Aslan S	Japanose Yen
fshort term	17 17 lg 163; -17 1636-1678 1536-1573 1436-1456 154:-1342	85; 9 85; 9 95, 95; 95, 95; 95, 95; 912, 95;	10-12 10-12 10-2 10-2-11-4 10-3-11-8 10-5-11 10-12-10-7-8	1016-1016 1014-1016 1011-1016 1011-1016 1011-1016 1011-1016	2.2 4 2.2 4 5. 5 4 5. 5 4 4. 5	8383 84.83 94.93 85.83 85.83	1174-1375 ( 1174-1276 ) 1174-1276 ) 1175-1276 ) 1175-1276   1175-1276	14-17 175: 205: 214-221: 214-221: 214-221: 191: 201:	5,3-5,4 9,91 <sub>5</sub> 9,1-93 <sub>6</sub> 9,1-93 <sub>6</sub> 9,1-93 <sub>6</sub>	1112-1131 1218-1238 1258-1278 1212-1258 1114-1138 934-978

Long-term Eurodollar two years 10%-10% per cent; torse years 10%-11 per cent; four years 10%-11% per cent; five years 11-11% per cent; nominal closing rate. Short-term rates are call for storling. U.S. dollars. Canadian dollars and Japanese ven, others two-days' notice. Asian rates are closing rates in Singapore. The ladewing nominal rates were quoted for London dollar certificates of depositions—month 8.95-9.05 per unit: three-months 8.95-9.05 per cont; six-months

### LONDON MONEY RATES

م و بارس اس⊼قی	engler da de	والمراجعة أوالما		الراسع منتناك		· · · · · · · · · · · · · · · · · · ·			ودبرعاسان	
July 18 1980	Sterling Gertificate of deposit	Interbank -	Local Authority deposits	Local Auth. negotiable   bonds	House	Company Deposits	Discount market deposits	Treasury	Eligible Sank Ellis &	Fine Trade Bills &
Overnight		15-1812				17-174	1512-16	<del></del>	!	
3 days notice		-	1653-163	: I	_	1 _	: "-		1 - :	_
7 days or	_	l '		i 1	-	1 -	: <u> </u>	, · <del></del>	l !	_
7 days notice		17-171 <sub>a</sub> i		I I	17₺	174	1532-16	' <u> </u>	( <u> </u>	_
One month		16 g 16 j		1712-1712	165	17		141:.142	167-164	1672
Two months		lola lol.		161-17	1612	1 =	15.151	14	15	164
Three months.	15, -1558	15-9-15	151g-15 g	1519.153,	15%	1614	141-145	14%-11%	14 115	1559
Six months		14-հղ.14-եց (	144-145	14 141	1512	1512	i '		134	1373
Nine months	15, 1512	135a-133. :		ı 137. 141a l	14	145	-	_		-5.4
One Year	12 15 lg !	133-151:	151a-15%	1512 1312	1353	1412	<b>-</b> .	_	:	_
Two years	– i		1312-1312				' <b>-</b> '		1	_

Local authority and finance houses seven days' notice, others seven days' fixed. \*Long-term 'ocal authority mortgage rate nominally three years 10%-10% per cent: four years 10%-10% per cent: fixe years 10%-10% per cent. \*Bank bilt rates in table are buying rates for prime paper. Buying rates for our-month bank bilts 14% per cent. four-month trude bilts

15% per cont.

Approximate solling rate for one-month Treasury bills 14%—14% per cent: two-months 14%—14%; per cent: three-months 14%—14% per cent. Approximate solling rate for one-month bank bills 15%—15%; per cent: two-months 15%, per cent: three-months 14%—14% per cent: one-month trade bills 15% per cent. two-months 15% per cent: one-month trade bills 16% per cent. two-months 16% per cent: one-month trade bills 16% per cent. two-months 16 per cent and three-months 15% per cent. Finance Houses Base Rates (published by the Finance Houses Association) 17 per cent from July 1, 1980. Clearing Bank Deposit Rates for sums at seven day's notice 14 per cent. Clearing Bank Rates for lending 16 per cent. Treesury, Billist Average tender rates of discount 14,5219 per cent.

Sterling ... 16 0.559910 0.607779 U.S. S. ... 11 1.33945 1.44299 Canadian S. 10.35 1.53259 1.66117 Aurtria Sch 652 16.4573 17.8570 Beigium F 13 57.1216 40.2774 Danish K 13 7.18368 7.78998 D'mark 71 2.31949 2.51571 Guilder 9 2.53460 2.75106 French Fr. 912 5.38494 1.597.68 Yen 9 290.950 516.549 Norwgn Kr. 9 6.39665 6.94322 Spanish Pts. 8 94.3226 102.560 Swedish Kr. 10 5.47355 5.93718 Swiss Fr. 3 2.12682 2.31816

**CURRENCY RATES** 

rate Drawing Rights

Currency Unit

Bank

	<del></del>		
. Date	Announce- ment lest	Date	Announce- ment last year
1 4 4 1 1 1 2 2	yoar Final 3.975	HK & Shanghai	3001
AAHJuly 23	rinai 3,879	BkAug. 21	Int. HK\$0.24
BrosAug. 7	Int. 1.2	HooverAug. 2	int, 5.61
AcrowJuly 29	Finel 1.5	House of	Itte, ott.
*Alexanders	LINS 1'2	FreserAug. 23	tot 20
DiscountJuly 21	I-0 4E	iClAug. 23	int. 12.0
Ault and	Int. 4,5	*InchcapeJuly 28	
WiborgAug. 8	Int. 0.75	*Initial	1 11101 1010
Automotive	ING U.73	ServicesJuly 21	Final 4.0
ProductsAug. 9	1-4 5 5	Johnson Gp.	
Bank Leumi	Int. 1.5	CleanersAug. 22	Int. 1.8
(UK)July 28	I-4 20	Letraset IntlJuly 26	Sec. int. 5.503
Barclays SkJuly 26	Int. 2.8	*Lex ServiceJuly 31	Int. 2.8
	Int. 8.25	London BrickAug. 22	Int. 1.734
*Bibby (J.)Aug. 6	Int. 6.0§		
		*Midiand BkJuly 25	int. 7.5
AluminiumAug. 15	Int. 5.5	*NatWestJuly 25	Int. 7.25
*Brown		Notuingham .	
(John)July 25	Final 10.239	MatJuly 30	Int. 1.0
Carrington	- ·	Ocean TransAug. 21	int. 4.095
Viyella,Aug. 15	Int. 0.7	RentokilAug. 2	Int. 0.85
*CawoodsJuly 24	Final 4.46	SecuricorAug. 8	Int. 0.9
City Offices July 29	Int. 1.3	Security.	· i
*Commercial		ServicesAug. 8'	int. 1.375
UnionAug. 12	Int. 4.0	Shell Trans Aug. 1	int. due
CorahAug. 16	Int. 1.25	Smith Bros Aug. 7	Final 0.1
*Crown HseJuly 21	Final 25	Smith and	
*Davy CpnJuly 24	Final 4.7	NephewAug. 14	Int. 1.25
De BearsAug. 21	Int. 20c	Taylor	•
Dixons PhotoAug. 1	Final 2.795	WoodrowJuly 31	Int. 3.15
*Dowty July 22	Final 5.0	Transport	
Estate Prop.	er -1 2 TE	DevAug. 18	Ipt. 1.45
Investment,Aug. 9	Final 2.75	TricentrolAug. 2	Int. 2.8
Fitch LovellJuly 31	Final 3.368	*Tube InvsAug. 6	12.5
General	Int. 5.5	UDT Aug. 8	Final due
Accident Aug. 15		VintonaJuly 31	Int. 3.0
GlynwedAug. 8	186 240	Word and	i
Gold Fields SAAug. 17	Einal 155c	GoldstoneAug. 3	Finel 4.092
GrindlaysJuly 31	Int 1.062	Wardworth	
Heron MotorJuly 17		(F. W.)Aug. 15	Int. 1.347
Hoffnang			.1
(S.)Aug. 22	Final 3.007	<ul> <li>Board meeting intime</li> </ul>	ated. † Rights
*Hong		iggue since made. # Tax	(frec. 3 Scrip
RobinsonJuly 22	Final 2.24	issue since made. ¶ For	ecast.
			1207 1221

November Coffee 1307-1321 Our clients speculate, free of tax, in very small to very large

amounts, on:--
1. London Traded commodities, including GOLD.
2. The STERLING/DOLLAR exchange rate.
LG. Index Limited, 73, The Chase, SW4 ONP. Tel.: 01-622 9192

### BASE LENDING RATES A.B.N. Bank ........ 16 % Hambros Bank ....... 16 %

Allied Irish Bank 16 %	Hill Samuel\$16 %
American Express Bk. 16 %	C. Hoare & Co
Amro Bank 16 %	Hongkong & Shanghai 16 %
Henry Ansbacher 16 %	Industrial Bk. of Scot 179%
A P Bank Ltd 16 %	Keyser Ullmann 16 %
M Arbuthnot Latham 16 %	Knowsley & Co. Ltd 18 %
Associates Cap. Corp. 16 %	Langris Trust Ltd 16 %
Banco de Bilbao 16 %	Lloyds Bank 16 %
Bank of Credit & Croce. 16 %	Edward Manson & Co. 17 %
Bank of Cyprus 16 %	Midland Bank 16 %
Bank of N.S.W 16 %	Samuel Montagu 16 %
Banque Belge Ltd 16 %	Morgan Grenfell 16 %
Banque du Rhone et de	National Westminster 16 %
la Tamise S.A 161%	Norwich General Trust 16 %
Barclays Bank 16 %	P. S. Refson & Co 16 %
Bremar Holdings Ltd. 17 %	Rossminster 16 %
Brit. Bank of Mid. East 16 %	Ryl. Bk. Canada (Ldn.) 16 %
Brit. Bank of Mid. Edst 10 30	Schlesinger Limited 16 %
	E. S. Schwab 16 %
	Security Trust Co. Ltd. 17 %
Cayzer Ltd 16 %	
Cedar Holdings 17 %	
E Charterhouse Japhet 16 %	Trade Dev. Bank 16 %
Choulartons 17 %	Trustee Savings Bank 16 %
C. E. Coates 16 %	Twentieth Century Bk. 16 %
Consolidated Credits 17 %	United Bank of Kuwait 16 %
Co-operative Bank*16 %	Whiteaway Laidlaw 161%
Corinthian Secs 16 %	Williams & Glyn's 16 %
The Cyprus Popular Bk. 16 %	Wintrust Secs. Ltd 16 %
Duncan Lawrie 16 %	Yorkshire Bank 16 %
Eagil Trust 16 %	Members of the Accepting Houses
E. T. Trust Limited 17 %	Committee.
First Nat. Fin. Corp 191%	* 7-day deposits 14%, 1-month
First Nat. Secs. Ltd 19 %	deposits 144%.
Robert Fraser 16 %	† 7-day deposits on sums of £10,000
Antony Gibbs 16 %	and under 14%, up to £25,000
Greyhound Guaranty 16 %	14½% and over £25,000 14½%.
Grindlavs Bank	# Call deposits over £1,000 14%.
Fi Guinness Mahon 16 %	§ Demand deposits 142%.

### **Public Works Loan Board rates**

1	Effect	ive fr	om July 1	2		
1			repaid	Mon-quota	loans	A* repaid
			at		•	87
Years.	by EIPt	At	maturitys	by EIP†	A‡	maturity§
Up to 5	13	12}	121	14	137	13≩
Over 5, up to 10	127	131	13}	13}	13 <del>{</del>	14
Over 10, up to 15	134	13 [	13₹	13}	14	14
Over 15, up to 25	131	13}	13 ļ	14 .	14	14
Over 25	13 }	13 }	13}	14	14	14
* Non-quota loans B	are 1 p	er cer	at higher	in each o	ase t	han non-
quota loans A. † Eq	ual inst	almen	ts of pri	ncipal, ‡ I	kepay	ment by
half-vearly annuity	(fixed e	oual	half-vearl	y paymer	ıts to	include
principal and interes	st). § Wit	th hai	f-yearly p	ayment of	inter	est only.

### RECENT ISSUES **EQUITIES**

issue	d Co	tost ate	15	80	Stock	Bert Bert	+ or	7 Po	Merec.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	[8] 문 [미 등 [8] 문
Price p:	£6	- <b>3</b> E	High	Low		85.	二	4	F	حو	
5381 <sub>2</sub> 55	F.P	20/6	100 90 9	85 74 3	Energy Capital (124p) Home Farm Prods 10p tt Jonkin & Purser	90		ь2.9	2.5	4.5	12.3
683 100	F.P F.P	27/6 27/6	91 110 78	79 91 67	Oakwood Group Pecriess	80 91		56.5 56.3 t1.0	2,4 2,8 5,6	11,5 9,9 1 9	5.2 4.5 21.2
551 680	F.P		112	106	ttS.P O. Minerals10p						

### **FIXED INTEREST STOCKS**

1	9.8	35.5	1980	Stock	투히	+ 0
1	35	£2,150	High Low	Juck	ᅗ	_
	( <	F.P. 22/8 F.P F.P. 4/9 F.P F.P. 4.9 F.P	101 95 1001: 100 1031: 1017; 69 631: 103 1017; 102 101	Folkstone & District Water 10pcPref 183., London & Midlandinds 81s pc Deb. 189.94 North Surrey Water 10pa Pref. 1886	95 100 108 k 69 103 1334	+1
		210 29/8	134: 134:	Sunderlyd & S. Shields Wtr 912 Rd. Frf. 1985	1310	****
1			KiG	UIS ALLEVS		

Sesue		Re	otest nunc. Oste	1980 Stock		Closing prides pt	+ or	
Price _p=	FE		20.0	High	Low	<b>3.2.</b>	<u> </u>	
65	NII		; –	, 30pm	25pm	Anderson Strathclyde	30pm	ļ <b>(</b>
103		14/7		127		Astbury & Madeley	121	i 1
132		23/7	j 8/9			Berisford (S. & W.)	29pm	! }
18	NIL	i —	1 -	10.pm	91pm	Brengroen	Brabili	1 -1 -1
115	F.P.	4/7	1/8	144		Brown & Jackson	138	-2
100	F.P.	3/7	7:8			Carless Capel	149	1+ 11 j
55	NII	22/7	15/8			Charterhall	10pm	+5
34 92 50	Nil	1/8		21pm	16pm	Clive Discount	21pm	1+5 L
92		50:7	12/9	42pm	31pm	Coalite	41pm	1
50	Nil	25,7	22/8	41pm	36pm	Crest, Nicholson	39pm	1 1
620	F.P.	16/7	5/8	737		Harrison & Crosfield	757	
76	NII	30/7	20/6	20 pm		Hazelwood Foods	18pm	! I
263	F.P.	1/7	15/8	365		Land Securities	365	
126	Nil		8/8	174 nm	127.pm	Lioyda & Scottish	172pm	-2 <u>!</u>
62		28/7		Qlanm	3 pm	Mallinson-Denziv	81 <sub>2</sub> pm	<b>i</b> —1 [
60cts	NI	1.	F-7"	4.760m	190nm	Pancontinental	320pm	
1212	Nii	31/7	26/8	1pm	lopes	Thurgar Bardex	1g pm	l I
4612	MII I	P 21 F	E-010	, apan	-2hiii		2,51.7	· · · · · · ·
R	onunc	iation	date	usualiy	last da	y for dealing free of stamp i	outy. D H	gures

Renunciation date usually last day for dealing free of stamp duty. b Figures based on prospectus estimate. g Assumed dividend and yield: u Forecast dividend: cover based on previous year's earnings. F Dividend and yield based on prospectus or other official estimates for 1979. Q Gross. T Figures assumed. Cover allows for conversion of chares not now ranking for dividend or ranking only for restricted dividends. § Placing price to public. pt Pence unless otherwise indiented. S issued by tender. I Officed to holders of ordinary shares as a "rights." \*\* Issued by way of capitalisation. §§ Reintroduced. \*I issued in connection with reorganisation, merger or takeover. Ill introduction. ☐ Issued to former preference holders. Mallotmont letters (or fully-poid). Provisional or partly-paid ellotmont lotters. † With werrants. †† Unitstad security. ‡‡ Issued as units comprising 2 participating prof. shares and 1 ord. share at R3.50 per unit, † Dealings under special rule.

### **EUROBONDS**

The Association of International Bond Dealers Quotations and Yields appears monthly in the Financial Times.

It will be published on the following dates in the remainder of 1980:

August 12 September 15 October 14 November 11 December 16

There is a limited amount of advertising space available each month: if your company is interested in taking advantage of this offer please

> The Financial Advertising Department on 01-248 8000 Ext. 424 or 389

## The Mitsui Trust and Banking Co., Limited

Negotiable Floating Rate U.S. Dollar Certificates of Deposit Series E Maturity date 19 January 1981



In accordance with the provisions of the Certificates of Deposit, notice is hereby given that for the final six month interest period from 21 July, 1980 to 19 January, 1981 the Certificates will carry an Interest Rate of 9%% per annum.

Agent Bank The Chase Manhattan Bank, N.A., London



### LOCAL AUTHORITY BOND TABLE

	Annual Interest					
Authority (telephone number in			Minimum sum	pond		
parentheses)  Knawsley (051 548 6555)  Redbridge (01-478 3020)	% 13 <del>}</del> 13	j-year i-year	1,000 200	Year 1 3/4		
Redbridge (01-478 3020)	131	-year	200	5/6		

CORAL INDEX: Close 496-501 (+2)

### UNIT TRUST SERVICE

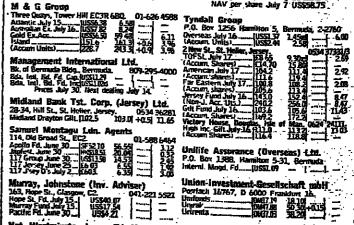
OFFSHORE	&
OVERSEAS-	-
Henderson Admin. (Gue 7 New St., St. Peter Port, Gue American O/S (USc) .[101.8	rusey) Ltd. msey 0481 26541/ 107.21  —
Henderson Baring Group 801, Gloscester, 11, Pedder, tages Ed * hub 16, 10009.00	

International Pacific Inv. Mont. Ltd.



N.E.L. International Ltd.
P.O. Box 119, St. Peter Port, Caeriser,
Sterling Deposit. 48,0
Sterling Managed. 46,7
Junil, First Internst. 49,7
Junil, Managed. 46,3
Junil, Managed.

Tokyo Pacific Hidgs. (Seaboard) N.V. Irsims Management Co. N.V., Caraczo. NAV per share July 7 US\$58.75 M & G Grossp



Standard Chartered lati. Bd. Fd.

S. G. Warburg & Co. Ltd., 30, Gresham Street, EC2.

Ster, Exempt Gat Po, Palace
Providence Capital Life Ass. (C.L.)
PO Box 121, St Peter Port, Germer 0883 26726/9
Sterling Boad Fd. 541 547
Sterling Boad Fd. 549 580
Intil Boad Fd. 0891 106
Intil Equity Fd. 1890 106
Intil Equity Fd. 1890 9 106
Procs at any 10. Hert desiring July 23. World Wide Growth Manager 10s, Boulevard Royal, Lawrencurg Worldwide Gth Fol US\$30.12 

Wren Commodity Trust

ourbation free of tilk premium insurance plans a promote of tilk premium insurance plans a promote tree of tilk premium insurance plans as promote tree of tilk promote tree of the promote of the promot

Richmond Life Ass. Ltd.

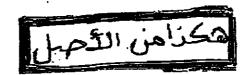
89, Antol Street, Doubles, 10, M.

1, The Salve Trast. 162,7 25
Do Damond Bd. 140,2 16
Irish Gdt Bond. 144,9 16
Irish Gdt Bond. 144,9 17
Atlas Gdt Bond. 174,7 17
Atlas Gdt Bond. 175,0 17

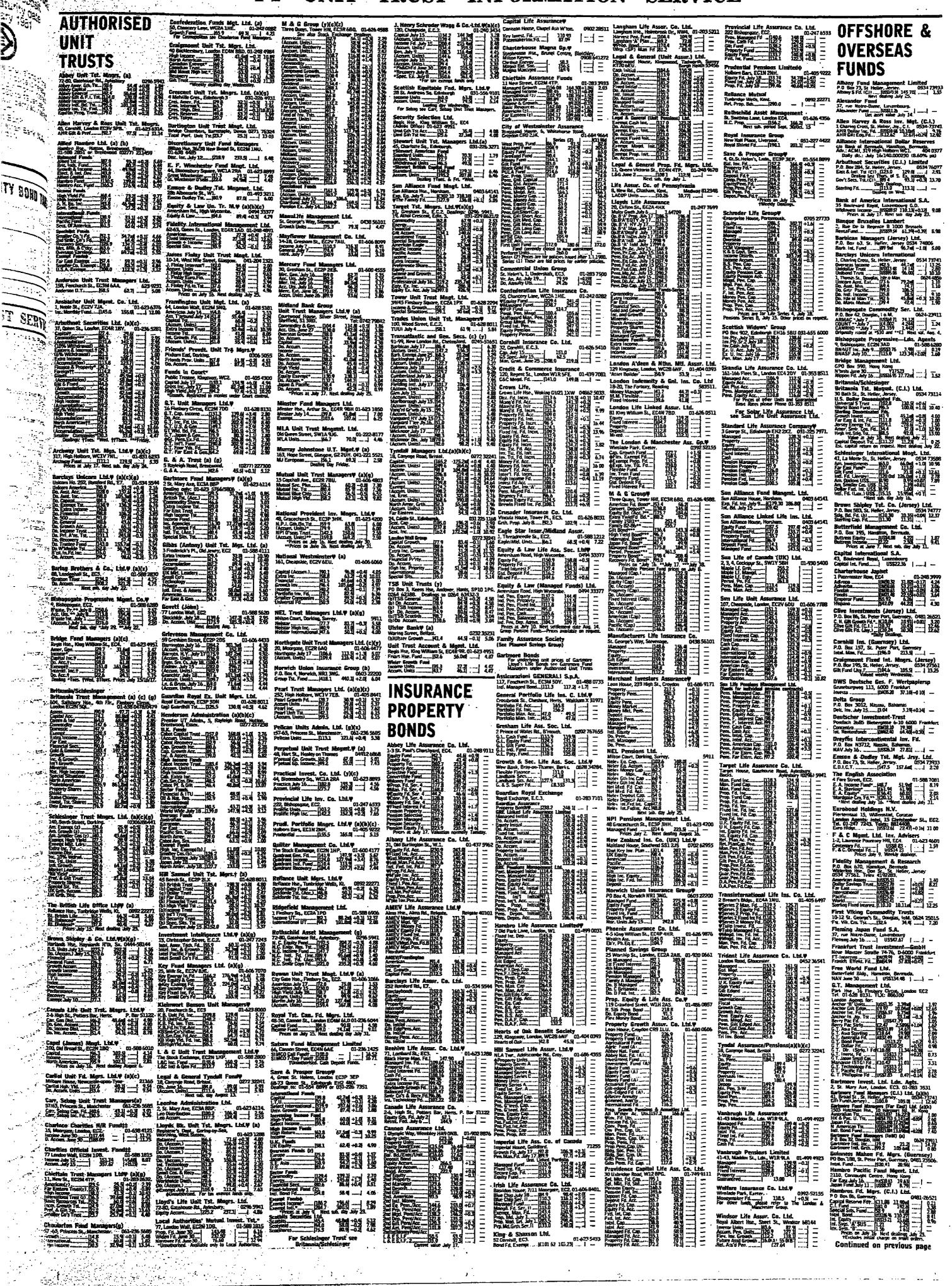
المكذامن الأجهل

Trust at

T SERN



### **INFORMATION** TRUST



FOOD, GROCERIES-Cont.

ABINITM Group of Companies		M	SHARE	INFORM	ATION	SERVICE		Strikent: Ped: Stock July Feb. Brit. Soger 500 October Brit. Vend'g 100 Jan. Jane Brooke Bond	Price   Lati   See   Cm   Yei   Price   12   See   Cm   See   Price   Price
□ Machine Tools □ Marine □ Education and Science □ Projects	LO/	ANS	BANKS AND  Wheld Students Students  Road Students	HIRE PURCHASE BU	LDING INDUSTRY	—Contd. ELECTRIC	ALS—Continued    Frice   Last   Dir   Cru   Eris   PRE	Dec June Cuttlers 205 2	80° 164 135 32 6255 23 144 0.75 3.9 4.7 0.0 60 125 163 75 4.9 3.4 9.8 02 144 163.75 4.9 5.3 6.3 50m 14.7 5.0 0.5 4.804
Head Office: 20 Park Street, London W1. Telephone: 01-492-1161/6. Serving the World of Industry and Commerce.	Public Boa Lia LijAgric Mt. 5pc 59- 30.1 31D/Alcan 10-3pc 89-9 1M ISIMet. Wtr. 3pc 18".	rd and Ind.	Jan. July ANZ SAI  July ANZ SAI  July ANZ SAI  Aug. Alexanders D	1	Stock   Price   31   New York   1   16.6   5.21   1.65   5.21   1.65   5.21   1.65   5.21   1.65   5.21   1.65   5.21   1.65   5.21   1.65	0.5 9.2 593) Apr. Oct Unitech 10p — 14.3 — Oct. Apr. Utal. Scientific	343   112 t6.09   2.5 2.5 25.9 308   16.6 t5.0   2.8 2.3 29.3 270   14.40.000   3.8 3.4 15.7 65   28.12 4.99   2.8 11.0 (3.7) 60   24.0   13.6 2.14.3	Dec. June Do. "A" 20p. 1 Jan. May Darish Bor. 'A ST 1 Jan. Lune England (J. E.) Sp. Jan. Oct F. M.C.	50m 147 5.9 0.5 4.860.4 112 17.5 7.5 42 9.6 27 18 284 0.4 - 3.2 - 10 10.9 6.0 1.913.4 8.7 11 10.12 0.31 3.6 4.1 9.4
BRITISH FUNDS Interest Price Last Yield ted.   Bed.	30.la 30.l/FF! 13pc 1981 20.J 200/Do. 14pc '83	Incial •   9813 31.1213   1614 26913	0.04   13.20       Anstacher (M.	12 20 20 11.0 - 7.5 - 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0	HEMICALS, PLAS	TICS - February Wifesale Ptg. 20	25-2 26 14 32 7.3 27 22 10.9 d1.05 63 6.8 2.6 699 11.2 10.0 4.9 2.114.6 164 261 13.5 0.9 11.1 [0.9]	Jamery Fisher (A.) So Mar. Sept Fitch Lovell 20p Nov. Apr. Glass Glover 5p. Jan. June Harriswood's 20p. Feb. Sept Hilliards 10p	78   221   1466   24 85 63 24 85 63 24 85 185   24 55107 27 97 306   17.0 4 10.0 6 6 6 11.2   18.5 41 3.4 8.3 74   24 40   2.7 1.7   12.5 13.3 4 0 10.4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
"Shorts" (Lives up to Five Years)  Shay 254[Expense 13c 1930# 991 13 41109 1431  Shay 154[Frazary 13c 1998] 955m 97 36 1164  1411  1549 154[Frazary 35c 1998] 955m 97 36 1165  140 140[Frazary 94c 1961# 97] 252 1001 1359	31M 30SFFNUXFappack. 30 31M 30N Do. 64gc Do. '81-3/ 11Ja 11J Do. 110g Dr. 1. 1. 1 11Ja 11J Do. 11agc Urs. Ln. '8 10a 12 lagt Urs. Ln. '8	2   87 <sup>1</sup> 2   25.2 6. 4   81 <sup>1</sup> 2   14.4 7. 15   91   2611 18   91   2412 10   92   2612	1 53 12 85 Nov. May Bank Subsan 2 06 12 65 Apr. Oct Barclays £1	61. 150 112 8.57 - 8.5 - Apr. S 161 265 284 150 51 81 33 July 1 615 263 284 150 51 81 33 July 1 615 243 300 51 8.1 33 July 1 615 243 M18.5 6.9 6.4 3.3 - July 1 611 344 306 13.0 - 8.0 July 1 11. 375 26 21.0 - 8.0 July 1	ov, Anchor Chem 64 28.4 5.3 Arrow Chemicals 37 16.6 11.0 BASF AG DM50 534 30.6 01.6 nr. Raser AG DM 50 5281. 20.4021.8	29118(3.2) % 3.9 0 % 21 6.1 7.2 % 1310.1 5.9 Apr. Oct. All Ind. Prods	. 203   14.4  8.4   3.4  5.5  5.5	Feb. Sept Lirfood Hidgs	37 147 22 0 85 6 90 28 12 16 10 17 18 7 2 52 22 10 4 50 1 1 1 1 1 8 9 3 72 10 4 62 0 25 15 9 3 5 22 24 7 0 22 25 2 5 7 23 14 4 7 0 24 4 9 6 3
220, 12.hm, Entr. 64pt 1981	30.J   31.D Do. 74,m2ADeh. '89.9   31.M   30.S Do. 74,m2A Do. '91.4   31.M   30.S Do. 9pe'A' '91.94 -   28F   31.A Do. 82,mcLn. '92.97	12	2.62 13.60 March Chan Hbk.Ko 3.70 14.36 July Oct. Corinthian 1 May Cred. France	100 51012 379 013% — 9.6 — Jan. A 100 51012 379 013% — 9.6 — Jan. A 100 51012 379 013% — 9.6 — Jan. A 175 5157a 178 01257a — 6.7 — Jan.	pr. Riagden Noakes . 126   193   7.7 uly Brest Cheus 10p   158   14.4   4.5 ug Brit, Benzol 10p   20al   14.7   2.0 uly Burt, Tar Pri, 10p   44   30.6   2.0 uly Burvell So   44   2.1   0.1	2.9 9.11 4.7 October Advanced III.p. 2.9 4.118.0 Dec. June Do. A	68 22 30 43 71 40 37 22 30 43 11.6 24 167 284 16.75 3.7 5.8 6.6 1312.7(7.7)	Apr. Nov. Meat Trade Sto Nov. June Morris'n(W.) 10p 1 May Meedlers July Jan. Hishols (Vinto) . 2	81   252 to 1.72
SAug   15F Treasury 3cc 3222	FOREIGN BO	NDS & RA Price   Last   Div 12 £   \$771   -	Jan. Apr. Dawes (s. M May Nov. Descrite Bask Di F. C. Firration — First Nat. 10 — Do. Wres. 75	50 5684 579 08124 — 5.4 — Dec. J 57 144 222 1.3 3.6 08.4 Mar. 5 57 24 — — 14 Feb. 61 28 12.5 — 5.7 — Jan.	me CitaG by 74% La. £96 30.6 Q74 bt. 0.8%Cm81/94 £96 24.9 Q8 gt. 00.8%Cm82/95 £85 24.3 Q84 Q94 Coalte Group 133 2.6 3.85 bt. Crastes Russ 61 17.5 3.0	94 6 7.6 — Jan. July Amal. Power 94 6 195 — Feb. Aug Andsn. S'chyde. 94 6 1000 — Oct. May Ash & Lacy 4.4 4.1 6.7 — Ass. British 1299 3.1 7.0 6.0 Feb. Sept. Assoc. Tooling.	93°-21" 30.6 H4.0   2.5 6.1 8.0   175   14.4 11.5   3.3 9.4 4.0   2012 966 B-   -   -   •	January Pyler Hidgs. 10p. January Pyler Hidgs. 10p. Jan. July R.H. M. Jan. July Robertson Foods. 1. Jan. June Rownthree M. 50p. 10	48 1012 441.0 51 33 71 48 24 4357 181044 65 15 304 4633 23 79655 12 726 32 64 55
Nul Shi Shi Shi 94pc 1983	Lia	98 21 3 24	June Dec Gerrard Nat May Nov. Gibbs (A.). Mar. Aur. Giblett Bros. Goode D't Mr Nov. April Oct. Guinness Pe 170.17 Dec. July Hambros		aly Do. 'A' NV	25 98 49 May Nov. Aurora Hids	48 144616 15202443 56 103 5467 3.0119 3.9 95 125 7.0 2110.5521 51 243 644 2310.4 8.8		133 25503260 — 8.7 — 164 10.25 33 3310.6 162 2518 FL3 — 11.2 — 17 10.9 45 29 3816.1 19 243181 24 8.9 4.9 10 2431863.06 4.8 4.9 7.3
2din 120 Esch. 10st 1983	1F 1A(00 for 28 Stath Ass.) 1A 10(00 for 28 Stath Ass.) 1A 10(00 for bitter Ass.) 1A 10(00 for bitter Ass.) 30J 31(0) include 6 for 18-88 10.1a 10.1 include 7-7.0 for 18-81 1J 10.1aoan 4or 710 Ass	32   12   3 30   14   2 52   19   62   19   10   62   19   10   62   19   10   62   10   10   10   10   10   10   10   1	19.75 Dec. July Hill Samuel. 16.87 Sept. Mar. Hong Sing. Si 16.32 Jan. Jessel Toynt 14.55 Jan. Jane-Joseph (Leo) 12.45 Feb. Aug. Keyser Uller June Dec. King & Stax: May Nov. Kleinwort B.	50 147 293 MQ47c - 3.1 - May N 100, 82 125 4.62 - 8.1 - Dec 110, 170 30.6 9.5 - 8.0 - Dec 111, 170 30.6 9.5 - 8.0 - Dec 101, 170 30.6 9.5 - 1.6 - June 10 101, 170 30.6 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5	w. Haistead (J.) 10p 311-2 28.4 12.0 th Hiss. Welch 50p 168m 14.7 7.5 y Hoechs OM5 - 280 679 (21.9 cc. Da Faill'strat. 599 16.6 (10.9 mp. Chem. £1. 376 10.3 23.0 sc. Ob. 596 P. £1. 392-3 16.6 3.5	46 91 32 Nov. May Barton & Sons 3.6 6.4 4.7 May Dec. Bezuford 10p 82 21 10.2 4.7 Feb. Oct Bewan (D.F.) 5p 82 70.3 Mar. Sept. Birmid Qualcast 1.28 8.7(4.6) Jan. July Birmid Mint. 1.27 81.37 July Birmid Mint. Sept. Birmid Publish 10p.	41 28.44.15 2.314.5 4.3 24 52.01.7 0 10.6 0 34 5.2 4.0 68.17.6(2.4 177ml 14.7 10.0 0 8.1 0 0	Tavener Rut. 205   2	16 166 105 17 103 75 77 706 245 131 51677 11 52 57 27 68 66 17 128 837 29 63 61 14 129 837 19 63 61
in 22Nyffragury 250 1985 727   420   10.74  Five to Fifteen Years	1.J 10.Lapan 4pc '10 Ass 30.J 31D Co 6pc '83-88 1A 10 Peru Ass. 2007 30.J 310 S.G.I. 643pc 1980 May 1 Turin 9pc 1991 15A 150. Turin 643pc 1984 1F.M.A.N. Uruguay 342pc	225 112 6 68 316 6 155 14 522 9921 112 65 984 115 9 0MS0 112 65 96 11 32	12.14 Aug. Apr. Lloyds £1 (3.39 Jan. Sept. Manson Fin. 2	0p. 45 112144263 12 8310.4 July N 	ag. Intr. Pairt	4.2 6.1 4.2 June Dec. Blacker 30.3. 2.6 12.1 4.7 June Dec. Blacker 4 Hodge. 1.8 4 116.4 Feb. Sept. Brakam Min 10p. 4.2 29 1.7 8 Jan. Oct. Braktmise £1. 4.3 4.4 6.5 Jan. Mor. Brassway 10p Mor. Brassway 10p Jan. July Brattse Dat. 10p	40 1012 13.0 5210.7 19 1 44 30.6 3.2 3.110.4 4.4	HOTELS AND Dec. July/Brent Walker 50 1 an. Sept. Comfort Int. 10p. 1 bec. June De Verre Hotels. 22 ur. Dec. Epicare 5p 1	4 166 1.75 54 34 58 6 1911 0.54 5.7 3.3 6.2 125 6.0 16 41221 92 103 101 0 18 7.516.2
2.ul 2213 Erot. 154:pp 1937 1929 154:12.92 12.66 14 193: Straing elge 185-874: \$15, 23 8.13 19.73 14 193: Straing elge 185-884: \$25, 23 8.13 19.73 154: Play Straing 185: Strain 22 12.33 12.66 154: 2012 101 176: Straing 185: 185: 185: 195: 95: 11.59 155: 2012 101 176: 2012 11.50 157: 2012 11.	Dividentés Palei Stock		Aug. Mar. Nat. West. 5.  June Ottowan Bank:  C'w Gr's Jan. July Poyal Bk. of S	366 103 17.5 6.7 6.8 2.6 may n 220 £5332 16.6 031% — 5.8 luby N 221 125 13.92 6.4 6.3 3.3 Feb. M 290 233 16.5 — 4.2 — Feb. M 291 251 16.0 — 4.2 — Feb. M 291 251 16.0 — 4.2 — Feb. M 291 251 16.0 — 4.2 — May N 291 251 16.0 — 4.2	nt. Ransom Wm. 10p 250 112 †4.92 w. Rentokil 10p 155 24.3 2.25 m. Revertex 50 24.9 41.1 m. Son. Ag. Ind. 51 190 112 14.7	3 4.3 2.8 11.8 November Bristol Channel. 27 3.3 15.5 May Ct. Brit. Alexanium 50.   7 2.7 3.3 15.5 July British Northrop. 5 2.5 11.1 5.2 July Feb. Brit. Steam 20.0 12.8 10.3 (4.6) 6.7 Feb. Nov. Bron's Cast 10 Steam 4.0 6.7 5.2 May Bronk Tool May Bronk Tool May Bronk 10.1 13 16.1 (6.1) May Sept. Brotherth P. 50.   1.3 16.1 (6.1) May Sept. Brotherth P. 50	11 577 116 306 5.25 0 6.5 0		5
5.50. 15.00 Treatury 13pt 1990; 1227; 9.612.66 12.50  5.50. 15.000 Treatury 13pt 1990; 125. 125. 125. 125. 125. 125. 125. 125.	M.J.S.D.   Asarco Inc. II No.Fe Ma.Au Baker Intol. Corp. S1	25 30 520		1. 148 125 8.0 - 7.7 - Nov. A 1. 535 28.4 26.0 3.0 6.9 6.0 Apr. C 50 521 26 075 - 3.6 - 5 - 505 21 20.0 0.5 5.8 - 5 5. 511 5.6051.92 - 7.7 4 Apr. C	RAPERY AND STO	2.8.10.3(4.0) Feb. Nov. Bronn's Cast 10p 3.34 8.49 3.8 Nov. May/Bronk Teng. 10p 4.0) 6.7 5.2 Mar. July Brooke Tool 1.3 16.1(6.1) May Sept. Brothen'd P. 50p Apr. Ang. Brown (John) 25p RES Sept. Brown (John) 25p RES Sept. Brown (John) 25p Agr. Bullough 20p 3.1115.41 4.9 May Dec. Burgess Prod 3.1115.41 4.9 Feb. Aug. Butterfield May. Aug. Butterfield May.	58 112 16359 55 8.8 25 170 281 10.75 3.5 9.0 4.0 46 28.4 3.75 3.5 11.6 3.2 7.7 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	uly Oct. Prince of Wales & uly Oct. Queen's Moat 5p . 3 uly Oct. Rowton Hotels 17	2 J9711 1 C   93 743  47
24d. 72/3.17e2suy 12/ar 9244. 974.d 16.6 12.34 12.86 24.0 27c 17e2suy 12/ac 1992. 833.d 15.7 11.52 12.56 25b. 25e3. 25c. 12.3c. 11.12.3d 12.3c 12.3c 13.3c 1	A. J. O. Ja. Bankers N.Y. 310 Mr.Ju. S. D. Barries Grp. 3623. D. Mr. Ju.S.P. Bendix. Corp. S5. M.Je. S.D. Beth Steel S8. Jo. Ap. Jy. O. Brown'g Fer. c1641. F. My. Au. N. Bronswick Corp. L.J. F. My. Au. N. Bronswick Corp. S5.	223 77.6 \$3.30 7790 77.5 \$00 19% 9 \$2.84 10% 54 \$1.60 9630 19.6 70c 5370 19.5 90c	—   6.5   Hire 	Purchase, etc.   November   November   Novem	1. (Amber Day 20p   26   10.3   12.8   10.3   12.8   10.3   12.8   10.3   10.3   12.8   10.3	2.6. 7.8. 5.0 Mar. July Caraford Eng June Capper-Neil 10p. 59.3 2.6 5.9 Feb. Aug. Carclo Eng Aug. Carclo Eng May Cartwight R 10p. 41 4.5 7.8 Feb. July Castings 10p July Castings 10p Jan. Chauperin & Hill.	45 16.6 th 40.6 2.4 12.9 (3.7) 62 24 42 2.7 9.7 4.6 66 28.12 5.2 9 11.7 4.6 7.7 11.4 4.63 2.3 9.4 6.7 3.8 2.6 42.6 0 10.3 0 55 2.6 2.6 6.4 6.8 3.3	INDUSTRIA	
17   17   18   18   18   18   18   18	Mr.JuSeDc   CBS \$2.50   J. Ap.Ly.O.   C.P.C. \$2   S.P.L. \$2   S.P.	21 25 52 80 25 24 53 40 25 24 52 40 1912 29 4 52 80 124 30 5 51 28 2950 185 - 9690 35 51 42 107 51 51 51	5.4   January Morgate Merc.   1.5	up 19 1911 075 6 5 5 6 6 Feb. Se al. 140 103 6.45 22 6.6 9.9 Jan. Ju b. 15 24.9 10.96 23 9.5 6.69 Dec. M 00 111 <sub>2</sub> 774 — 6 Jan. Jan. 2 2 50 252 231 12 6.6123 Feb. Aug	Billiam & Con. 20b. 8 876	- 91 Feb. July Chemring 59 45 + 17 Feb. Oct Christy Bros 12 4 1 75 Jan. May Clayton Son 50s 12 10 611.7 Apr. Oct Chifford (Ch.) £1. 2.9 4.010.4 Jan. July Concentric 10p. 2.2 6.37 m Feb. Sept Cook W. Seef. 20p.	38	far OctIAGB Research 10p 21 ct. Apr. Aaronson Bros. 10p 6 far. Oct. Abbey Ltd. 3 ecomber Aero & General 25 ct. Apr. Aero Needles 2	2 28-106-0 1-9 4-0-88-6 2 2-10-0 5-4 2 28-1 105-0 3-515-1 2-6 2 10-9 2-8 3-1 1-5-25-7 3 10-12 1-6 2-3 9-9(5.7)
3Ma Trasser 15 apr 9644 1265 27 3 13.45 13.20	My.Au,N.F. Criticarp S-3	16% 31.3 452.0 65% 22.4 51.08 19 10.3 52.90 233, 5.4 57.90	3 6.2 5.3 7.4 BEERS, WII - 6.8 3.6 Sept. Mar. Allied Brews Feb. Sept. Annal. Dist.Pr.1	NES AND SPIRITS OF AND SPIRITS OF AND SPIRITS OF AND	c. Casket (S.) 1Gp   20   125 1.75 r. Church	2 9 86 4.4 Jan. June Cooper (Fr) 10c J 3.6 12.5 3.4 Jan. June Cooper inds. 10c J 5.1 6.2 3.4 Aug. Feb. Crointe Group. Ct. Crown House. Ct. Crown House . Jan. June Deck. Commiss 78/94 Jan. June Danks Gowertan Jan.	£67 1911 033 % — 56 — F	eb. Cct. Airfix Inds. 20p 1 dry Dec. Alphine Hidgs. 50p 6 ct. May Amad. Metal (11) 28 September Anaber Inds. 10p. 3 eb. Sept. Ang. Ana. Asphalt 2 HAppl. Computer 4 an. Aug. Arenson (4) 10p. 3	
5N in May its chemical 1940; "SEC   2045; 84 112.76   12.71   40   12.71   12.72   12.	Ap.Jy.O.la. Crown Zell. S5 F.M.A.N. Eation Crp. S0.50. J.A.J.O. Esmark 51 Faxon J.Ap.Jy.O.la. Firestone Tire II Ap.Jy.O.la. Firestone Tire II Ap.Jy.O.la. Firestone S5. J. Ap. II. Olikiwa Com. S5.	125, 56, 51.60 197, 44, 52.30 115, 52.51.72 205, 66,651.84 293,42 75, 55.20 295, 14 — 642, 43, 51.20	4 — 6.7 — Bellisten Brew 4 — 0.7 Dec. June Bell Arthur 5 7.9 May Dec. Boddingtons. — Jan. July Sorder Brew 8.4 Aug. Feb Brown (Matth	70 199 234 15.29 4.4 4.0 6.8 1 June Se 1. 98 144 h2.5 2.7 3.6 14.7 Jan. Se 1. 102 124 4.5 2.5 6.3 8.1 June No 1. 104 164 5.03 2.8 5.0 9.4 Mar. O. 1. 104 144 145 2.5 6.3 8.1 June No	hyCope Sports 50 23 16.6 1.0 Cornell Dress 50 20 243 0.8 Courts 14" 72 252 3.7 4. Courts 14" 25" 25.2 3.7 4. Courts 25" 25.0 6.57 7. Dewhirst 10p 49 16.6 h1.35 1.0 10ms Photo 10p 95 23.1 http://life.co.doi.org/10.1011/2011/2011/2011/2011/2011/2011/2	0 7.6 0 Apr. Oct. Davy Corp	97 25.2 6.7 25 9.9 51 59.2 125 6.8 1914.4 46 6 7 30 308.43.6 1171.2 6 105ac 26 6.47 3.9 11.5 (3.2) F. 120 14.4 7.2 32 8.6 4.9 3 35 125 3.0 1771.2 6 7 8	November   Armour Trust 10p   16 pr.   Oct. Ashley Ind. Tst.   5 pr.   Oct. Ashley Ind. Tst.   9 pr.   Armour Trust 10p   3 pr.   Ashley & Radely 20p   120 pr.   Land Ashly & Radely 20p   120 pr.	0 22:0 0.1 17.3 1.4 4.1 2.1 22:0 0.1 17.3 1.4 4.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2
0May 2011 Exch. 12pt 1998	J. Ap. Jy. 0 Fluor Corp. Sq  Mr.Je.S.D. Ford Metor S2.  Mr.Je.S.D. GATX Sq  Mr.Je.S.D. GHEETE S1.  Mr.Je.S.D. Honeywell \$1.50.  M.J.S.D. Hutton (E. F.) \$1.	347 5.3 5.20 12 25 5.20 14 52 20 11 52 20 11 52 20 11 52 5.00 15 25 55.00 15 25 55.00		79 143 7352 16 6.4 15.2 Jan. Jan. Jan. Jan. Jan. Jan. Jan. Jan.	el Empire Stores 172   125 5.1 L Executex 20p 30   28.4 dl.85 by Fairdale Text. 59   23   28.1 1.5 by Do. 'A' 5p	3.0 4.2 11.2 Apr. Sept. Draice & Scall Ip. 3.9 8.8 3.7 Dec. May Ouchle Steels 3.9 9.3 3.9 Jane Dec. Duport 3.9 9.7 3.8 Jan. Sept. Ethro (Hidgs) 2.4 5.8 10.4 Feb. Oct. Eiliott (B.) 4 5.0 6 May Oct. Evered	46 252 275 23 8.5 7.2 3 8.6 7.2 3 8.	tt. Apr. B.E.T. Defd 14  pr. Oct BOC Intri 79  lay Nov. BTR 37	112757 24 75 8.0 112757 24 75 8.0 112142 21 7.8(69)
53a 253a/Freez, 19ac 260465   165mi 186/15307   15402 95 1943a-7reezan, 113ac 01-04   95a   11.3/12.58   12.55 Ala 1446-5arding 38-pc 199-94   434   94 8.71   10.24 1May 214/Freezan 12-pc 05-65   140   13.05/12.76   12.76	Mr.Je.Sep. Dt. I.B.M. Corp. \$1.25. Mr.Ju.S.D. Mr.Je.S.D. ii. U. Internationalli. F.MyAuM. Kalser AI. \$1 <sub>3</sub> Lonet Corp. \$0.10. Lonetars Lant \$0.15. Aphrilla Mart. Han. US7 50	245   1411   5332 5450   193451   10 6240   52   51 20 5750     20c 20c   35   51 50 20c   35   35   50 50 20c   35   35   35   35   35   35   35   3	6.1 Aug. Feb Greene King. 7.4 Aug. Feb Guinness 5.5 Jan. July High'd Dist. 2 2.4 May Oct. Inversordon. 4.0 Aug. Feb Irish Distiller. 8.1 April Nov. Mccallan, Sie	198mi 1977 5.5 5.00 4.010.9 Jan. Ji. 96 15.6 16.9 2.2 7.3 5.4 June De De J. 242 2.4 7.2 2 4.0 2.1 2.2 Apr. De J. 242 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	y Foster Bros  84   26 3.19 c. Freemans (Lon)   132   28.4   3.5 L Geller (A.J.) 20a   43   25.2   13.5 c. Goldberg A  68   26 5.25 c. Goldberg A  68   26 5.25	3.9 5.4 6.7 May Oct. Expanded Metal. 3.6 7.7 June Dec. Farmer (S.W.)	56 144 55 16115 6.9 152 125 9.17 3.4 8.6 4.1 J. 37 103 3.0 p. 1221 p. 30 166 1.76 3.1 8.4 4.3 J. 65 125 4.75 2.710.4 4.8 D. 76 304 5.31 2.910.0 7.0 7. 72 125 6.65 2.513.2(2.5)	ug. Mar. Bath & Portland  31 une Dec. Baxter Travesol  £14	74 94 064c — 15 — 243 84 25 86(53) 26613 16 58(08)
\$5 26 Veriffers. 13 per 14-03.   107   - 12.59   12.56   108 in asom 5 per 13-121.   52%   42 10.92   11.25   12.60   10.82 in asom 5 per 13-17   57 per 19.6 11.52   11.64   12.52	Ju.Ag.Jy.) Morgan (JP) USS2.5 N. F. My. Au. Harton Saran Int. St., M.In.S.D. Jweers-III. 53.125 Ju.Oc.J.A. Quaker Gats USS5 March J.A.J.O. Rep. M.Y. Corp. S5. F. MyAuit, Pernord S5	194 H. 1280 640 A. 151.04 154 H. 151.04 154 H. 151.05 154 H. 151.05 154 H. 151.05 154 H. 151.05 155 H. 151.05	4.5   Got. AP* Tomatin 4.6   July   Feb. Vaux		. Harris Obsensivay. 148 28.4 6.0 Li Hetene Lon. 10p. 22 10.3 1.48 Dn. Var Cay Pri 215 19 11 012%	Q32   3.8113   Juse   Dec.   Glymeed	94 1259.15 1813.9 4.9 S 840 676 — — — — S 24 14.41.34 3.8 8.6 6.0 D 98 164523 1.7 7.6(9.0) O 257 14.4 19.39 1.910.8(6.0) M 14 18.3 1.1 0.1111.2 O	ppt. Apr. Berlsfords	1979 — — — — — — — — — — — — — — — — — —
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Cover allows for conversion of shares not now rapiding for dividends or ranking only for restricted dividend.

Cover allows for conversion of shares not now rapiding for dividends or ranking only for restricted dividend.

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Flat yield. g Assumed dividend and yield. It Assumed dividend and yield after scrip issue. J Payment from capital, exceptions yield. If Stay yield, grayment than previous total. a Rights issue pending, a Earnings hased on preliminary figures. a Dividend and yield exclude a special payment. It indicated dividend: cover relates to previous dividend. P/E ratio based on intest annual earnings. a Forecast dividend: cover passed on previous dividend. P/E ratio based on previous dividend. P/E ratio based on previous dividend and yield based on previous free of the payment. The dividend and yield based on previous for 1979-80. S Assumed dividend to the dividend and yield based on prospectus or other official estimates for 1979-80. S Assumed dividend and yield based on prospectus or other official estimates for 1990-81. R Figures based on prospectus or other official estim Sri Lanka Africa Central Rand Eastern Rand . Far West Rand 684 | 346 | 0285c | \$\rightarrow\$ 23.9 | \$\rightarrow\$ 23.9 | \$\rightarrow\$ 23.9 | \$\rightarrow\$ 23.9 | \$\rightarrow\$ 23.0 | \$\rightarr REGIONAL MARKETS 200 | 11.2 | 035c 126 | 28.4 | 03425c 358 | 975 | 4-926 | 24.3 | 025c 24.3 | 025c 25.3 | 975 | 4-1207s | 28.4 | 0275c 1174s | 28.4 | 0205c 115s | 14.4 | 0205c 1559 | 14.4 | 0205c 1559 | 28.4 | 0405c 1599 | # 10.5 2.2 9.2 4 15.5 - - - 3.0 6.1 2.1 6.1 11 10.3 - 3.9 1.5 8.7 1.3 12.4 Finance **OPTIONS** 3-month Call Rates Innerest
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# FINANCIALTIMES

Monday July 21 1980



# Economy worry on Greek EEC entry

BY DAVID TONGE IN ATHENS

completed by interna- rate." sombre picture of the economy cannot which will join the EEC in six challenges of entry to the EEC

than the Western average, and priority of low unemployment. Greece investment. faces stagnation and a rising number of jobless, according to International Monetary Fund, the Organisation for Economic states that the Greek Govern-Co-operation and Development, ment has been "less effective the grouping of 25 industrial- than intended" at implementing ised nations in Paris.

"Gross domestic product is problems. expected to stagnate in 1980. with the year-on-year rate of inflation increasing a little to as high, and criticises the Gov-around 25 per cent, while due ernment for putting the main to the rise in oil prices the deficit may widen to \$2.5bn," the OECD writes.

It makes clear that other trols on the banking sector. factors apart from oil were responsible for deterioration on current account. "The current external deficit has become a component in making the bankconstraint which threatens. unless the necessary structural changes take place, to reduce substantially Greece's medium- by a team which visited Athens below the 1974 peak.

Cheap U.S.

'increasing'

appeared to have taken a grow-

and vinyl acetate markets over

the last few months—in spite

of anti-dumping complaints against the U.S. over both pro-

The European Commission

has already announced an

official anti-dumping investi-gation against the U.S. over styrene. while a similar

announcement on vinyl acetate

is expected this week. Both pro-

duc's are used to make plastics.

to Europe of these chemicals is

almost certain to increase pres-

the European free market-

U.S. styrene exporters had risen

from 21 per cent last year to 25 per cent in the first three

months of this year. It said

there were now indications that

it had risen " easily over 25 per cent" during the last three or

Figures on European imports

of vinyl acetate from the U.S.

were not yet available for April

exports of vinyl acetate in much

the same way as those of

have pinpoint the need for swift

The indications we already

Closed shops

to luce of this year. CEFIC!

sure on the European

dumping duties.

The increase in U.S. exports

ing share of Europe's styrene are

By Sue Cameron, Chemicals Correspondent

chemical

exports

organisations paint a The report warns that Greece respond onths. next year unless she tackles After years of growth higher this deficit and gives urgent increasing

The second report, by the policies aimed to tackle these

It describes the Greek publicsector borrowing requirement ernment for putting the main burden of credit restraint on halance-of-payments the private sector. It calls for gradual abolition of the numerous administrative con-

> "In the longer run, we would expect that a free interest rate structure would be an important system more competitive and efficient"

The IMF report was prepared

procedural agreement with its time in the spring to clear a white-collar unions which is increasing its exports of cheap petrochemicals to the EEC in advance of possible anti-dumping regulations.

The European Council of the collective business for the first time that no other models were threatened.

News of short time cast further gloom.

oti-dumping regulations.

further gloom over the share of the home market to troubled automotive industry, about 17 per cent from the

shedding

and

Redundancy plans have been

announced by companies such

BL said Rover was suffering,

adopt a policy of unilateral dis-

autumo. It could also adopt a

sidering withdrawing altogether.

two of the most divisive issues in the party, look like dominat-

ing the debates on policy, as

Resolutions submitted, pub-

lished at the weekend, include

an unprecedented number of

resolutions opposing nuclear

hitter divisions over defence

which split the party in the

opposed to the constitution.

The two subjects, traditionally

BY ELINOR GOODMAN, LOBBY STAFF.

Chemical Manufacturers Fed- already hit by a sharp drop in

erations (CEFIC) said at the sales of cars, commercial

mission for provisional anti- THE LABOUR PARTY may

CEFIC said that the share of a mament at its conference tihs

which excludes in-house sales more hostile attitude to the between the various divisions of Common Market, including a

individual companies-held by commitment at least to con-

said. But it believed that U.S. to be debated in an atmosphere

producers were increasing their which may revive some of the

weapons.

1950s.

Many

Renolds

Engineering.

weekend that U.S. imports vehicles and tractors.

In a separate move BL Cars

REPORTS on Greece to-longer-run potential growth for the regular annual consulta-Greek Government; Greek officials expect only minor amendments in the text given them. The OECD report is more

questing and comprehensive. It was drafted earlier this month, and virtually completed at a meeting last Thursday and Friday in Paris between Greece ter in 1980. and OECD officials.

cent, but a solid 5 per cent rise in non-agricultural output led to manufacturing investment. It a 3.75 per cent increase in GDP. This year, despite a 5 per

cent increase in agricultural production, GDP is not expected to increase, and according to expectations in Athens might even fall slightly. For 1981 the OECD tentative

forecast is that GDP could rise

by 1 per cent (3.75). Last year one of the most hopeful signs was a sharp recovery of manufacturing investment for the first time in five ment still remained 10 per cent

6,000 on short time at BL

Rover saloons and the TR7 least until the end of individual representation.

sports model were to go on September, and 2,000 at In particular some union short time, possibly until Pengam. Cardiff, supplying officials are relieved that the

gearboxes for the Rover, would

record low of less than 14 per

cent last month. But sales are

very low as buyers await intro-

The procedural agreement on

followed by a similar one

between covering Leyland Vehicles' management staff.

like other manufacturers, from The BL Cars agreement is tions for the group for this reduced demand for executive viewed by the signatory unions year's deal, due in November, cars. About 4,000 at Solihull as a breakthrough on repre-

Crucial arms issue for Labour

the party Leader, and

Ringht-wing members of the

Shdow Cabinet like Mr. William

Rodgers even further out on

Callaghan regards the priority

Rates reform and complaints

about the way the water industry is organised domi-

nate the list of resolutions

submitted for this year's Con-servative Party Conference.

Proposals for rates reform are

being discussed by Ministers.

this year as defeating the Left

which have been the subject

of such preoccupying argument

the constitutional issues

Feature, Page 11

A policy of unilateral dis- so hard on disarmament this

armament would be unaccept- year in the belief that any such

But indications are that Mr.

rights

BY ARTHUR SMITH, MIDLANDS CORRESPONDENT, AND PHILIP BASSET, LABOUR STAFF

BL CARS announced last night assembly plant, Birmingham,

that 6,000 workers making would work a four-day week at

be affected.

component suppliers duction of the "W" registration

bargaianing

Wilmot Breeden, earlier this month will be

labour, next month.

Associated

sports model were to go on September, short time, possibly until Pengam.

private investment. Public investment has also been under pressure. The OECD writes that in 1979." the main brunt of the Government's restrictive policies is planned to be borne by public investment. It expects this investment to fall by about quar-

The OECD finds that the rate The report says that in 1979 of net profits after depreciation agricultural output fell by 5 per in manufacturing was too low of net profits after depreciation says that last year labour costs had a moderating effect on prices, with real earnings in the private sector falling significantly.

> Between December 1979 and May this year the annual rate of inflation was 28.25 per cent. Even allowing for factors such as oil prices and phasing-out of some food subsidies, the rate is high enough to worry the OECD deeply.

The IMF report describes how the current account deficit adjusted to include deposits convertible

sentation and bargaining rights

agreement has been signed

before the Government's Em-

ployment Bill becomes law,

probably at the end of this

They believe that the agree-

ment will belp stave off the

likelihood of an increased num-

ber of ballots of the staff, which they think likely to be urged

by hawks in BL management

after enactment of the Bill,

with its great stress on increased

useof ballots in industrial rela-

delayed 5-10 per cent pay deal

which will handle pay negotia

the party "came to its senses

and realised what it had done

Mr. Callaghan's camp claims

to be relatively confident that

it will defeat the Left on the

question of who should elect the

party Leader and write the

Divisions on the Left over the

precise form of the proposed college to elect the Leader may

Some Left-wingers are unhappy with the idea that the

unions should be given the

decisive say, as the motion before them on Wednesday will

his supporters succeed in heading off the proposal at this

meeting Executive. Left-wingers are determined that it should be

dehated in some way

Even if Mr. Callaghan and

manifesto.

this week.

It sets up a management staff

agreement, for about

from this year's

management staff, is

negotiating committee

month.

For early 1980 limited data accounts, rose to represent 5 per for the regular annual consultations between the Fund and the available suggest weakening of cent of GNP, compared with
Greek Government Greek offiprivate investment. Public in2.9 per cent in 1978 and "was the most striking development

> The OECD finds that developments this year represent deterioration in the underlying balance of payments position. The surplus from invisibles such as shipping, emigrants' remittances and tourism covers about two-thirds of the trade deficit against almost four-fifths in 1978. This year the trade deficit is expected to reach nearly

After the heavy borrowing abroad cost of servicing Greece's debt is expected to rise, it adds. The OECD finds that "pro-

\$2.5hn.

gress in reducing domestic imbalances may be rather limited this year." In 1981, the first year of EEC membership, inflation could be reduced below 20 per cent. There is need for "a sub-

stantially smaller public sector deficit than at present, and a re-ordering of priorities between current and capital drachma expenditure."

### **Councils** to change accounting methods

By Robin Pauley

LOCAL AUTHORITY accountants have agreed to adopt commercial accounting standards and practices after a long dispute in the accountancy

This means that comparisons between public sector and commercial accounts should be esier as the bases for compiling the figures will be more standardised.

Guidance notes which will go o local authorities at the end of the month will help to meet objections that councils are not required to give a "true and fair" account of their finances. They also represent a victory for the commercial accountants who have long argued the un-desirability of having two separate sets of accounting standards and principles. The commercial accounting

bodies and the Chartered Institute of Public Finance and Accountancy have together been seeking common ground on the statements of standard account-ing practice (SSAPs) for most of this year. Mr. Noel Hepworth, director

of CIPFA, said: "The main point, often clouded by argument about different accounting methods, is to easure that local government is as efficient as

possible."
The most important move is the acceptance by councils of the SSAP on the disclosure of well surface at the Executive accounting policies.

## Weather

UK TODAY SUNNY intervals, scattered showers. Cool.

London S.E., C.S. N.W., C.N. England, E., W. Midlands, N. Wales Scattered showers, sunny intervals. Max. 16C (63F). E., N.E. England, E. Anglia, N.W., S.W. Scotland

Showers, sunny intervals, Max, 15C (59F).
S.W. England, S. Wales
Mostly dry. Max. 17C (63F).
Borders, C. Highlands.

N.E. Scotland Showers, sunny intervals, Max. (4C (57F).

Ulster Mostly dry, sunny intervals. Max. 16C (61F).

Outlook: Rain spreading from the West, sunny intervals, cool.

WORLDWIDE

Y"day midday °C °F

	Ajaceio	S	24	75	Liapon	S	25	7
	Algiers	S	28	82	Locarno	C	20	6
	Amsdm.	R	15		London	R	13	5
	Athens	S	30	86	Luxmbg.	R	15	5
	Bahzain	S	39	102	Madrid	5	35	9
	Barcina.	5	24	75	Majorca	S	28	8
	Beirut	S	29	84	· Malaga	S	28	8
	Bellast	C	13		Malta	5	28	8
	Belgrd.	S	29		M'chstr.	С	13	5
	Berlin	C	21	70	Melbne.	R	11	5
	Brarritz	C	21	70	Milan	Ç	23	7
	Bmghm.	R	15	59	Mntreal.	C	24	٠7
	Blockpi.	С	15	59	Moscow	C	18	6
	Bordx.	C	18		Munich	R	22	7
	Boulgn	C	15	59	Namabi	S	23	7.
	Bristal	Ç	15	59	Naples	Ş	25	7
	Brussels	R	17	63	Nwcstl.	C	12	5
	Budpst.	F	27	81	N. York	S	33	9
	B Aires	5	13	56	Nice	S	23	7
	Caire	5	34	93	Operto	F	22	7
	Cardiff	Ċ	13	55	Oslo	R	16	6
	Caa.p.ca	S	26	79	Paris	Ç	19	6
	Cape T.	Ş	16		Perth	S	17	6
	Chicago	S	33	92	Raykivk.	E	11	5
	Calogne	R	37		Rhodos	5	30	8
	Contign.	Č	17		Rio J'a	S	24	7
		Ś	29		Roma	F	26	7
	Dublin	č	13	55	Salzbrg.	C	25	7
	Dbrynk.	5	26	79	Sıngapr.	Ç	29	8
	Ednogh.	Č	13		Stekhm.	C	18	84
	Fare	S	31	88	Streabg.	Č	18	64
	Florence	ş	36	79	5ydney	S	14	5
	Frankft.	Ŗ	17	53	Tangier Tehran Tel Aviv	S	34	9.
	Funchal	S	24	75	Tehran	S	31	88
ĺ	Geneva	č	22	72;	Tel Aviv	S	28	87
I	Gibrhr.	S	23		Tonerde	S	24	75
ĺ	Glasgow		13 12	25	Takya	S	29	84
I	G'rnaey Helsinki	ç	16	24	Torento Tunis	č	23	74
ĺ	Innabrk.	č	22	맭	Valencia	S	32 31	90
ĺ	HITTOTK.	•	~	12:	A 1:GUCIB	3	-51	at.

THE LEX COLUMN

# Why U.S. banks look overseas

Midland Bank's bid for a controlling interest in the Crocker National Corporation centres on its proposal to recepitalise Crocker. After tendering for a stake of over 40 per cent at book value, Midland intends to inject nearly \$500m into Crocker through the purchase of new shares at a substantial premium. This factor seems to have been crucial in gaining the approval of the Crocker board. and Midland must be hoping that it will make the bid acceptable to the various regulatory authorities.

In its last report and accounts, Crocker drew its shareholders' attention to an improvement in its capital ratios, pointing out that the equity/average total assets ratio had risen from 3.3 per cent to 4.1 per cent since 1974, at which level at compared favourably with the position of similar banks. But its expansionary instincts have clearly had to be held in check in order to preserve a high ratio, since it has been selling some of its loan book to other institutions of its existing ordinary shares, in order to avoid too rapid a sum that it would not have growth of its balance sheet. It looks as though the margins Crocker is earning on its business are simply too slim to support the sort of growth in its loan portfolio that its market-ing is capable of achieving without a weakening of the equity base relative to total

American banks in general are not short of capital on a broad international camparison (except when compared with their counterparts in the UK and Switzerland). But their practice of not adjusting their bond portfolios to market value means that occasionally earlier this year, for examplethe book value of their equity is unrealistically high. And more seriously, the acceleration of inflation in the U.S. is require recently done, to inflationing banks to sustain a more adjusted earnings. of inflation in the U.S. is requirrapid rate of balance sheet expansion in nominal terms.

The obvious solution to a shortage of capital is a rights issue of new equity. In the U.S., however, share issues are generally placed through a syndicate, rather than being offered by way of rights to existing shareholders. Under this method, an offering of new shares at under book value dilutes the interest of the existing shareholders, and so U.S. banks are generally unwilling to issue equity at a discount. As

ROYAL DUTCH SHELL GROUP Impact of FAS 8 en net income 1000

discount to net worth, new issues have been rare-Crocker's shares were trading around \$30 before bid rumours began to circulate, and this represented a discount of at least a third to book value. The bank would probably have been reluctant to issue shares around this level anyway: in addition, the Midland bid offers it an amount of new equity larger than the market capitalisation

This does not mean that the bid will necessarily appeal to Crocker shareholders. The idea that bank shareholders can only be bought out at a premium to book value dies hard in the U.S., and although the new capital is clearly immensely valuable to the bank, it would be obtained at the expense of

been able to raise in any other

The general consensus among analysts is that Midland's earnings per share would not suffer any short-term dilution through taking in Crocker. Crocker's return on assets has been perfectly respectable, but U.S. banks have not been profitable enough to be able to afford the luxury of giving prominence, as the London clearers have

For 1979, Crocker's net in come (stripping out the profit on a major property sale) was \$77m, Midland must be keenly aware that after a \$58m adjustment to compensate for the loss of value of monetary working tional depreciation, the \$30m dividend—even giving some allowance for a gearing adjustment-can have been barely covered

Goodbye FAS 8 The battle to introduce an

most banks—with the exception international standard on of the fast-growing Sun Belt accounting for currency fluctuainstitutions—are valued by the tions comes to a head over the revaluing fixed assets lookingstock market at a substantial next few months. The UK especially vulnerable.

its Exposure Draft 27 in August and a closely similar document will be released in the U.S. during the following month. If all goes well an effectively common standard should emerge by the middle of next year, while Canada alse plans to come into line. The exposure draft is unlikely to spread many ripples

of alarm in the UK. It is in line with the common practice of many UK companies in charging to profits only those exchange, differences which reflect cash movements. Other differences are accounted for by means st. movements in reserves. But for the U.S., the exposure draft will mark a complete change of approach from that prevailing under FAS 8 since 1975. What-ever the theoretical made-quaries of FAS 8. the underlying reason for the change is the weakness of the U.S. dollar and the high rates of U.S. inflation.

The "temporal" method embodied in FAS 8 has caused huge fluctuations in reported earnings, especially quarterly earnings, which bear no relation to underlying operating profits.
A typical cause is the translation of fixed assets at historical rates and of foreign currency. loans at current rates. The volatility of Shell's earnings under FAS 8 is notorious, while other companies which have had difficulties with the standard include Exxon. Sony and the French group Pechiney. U.S. Treasury and the Federal Reserve have also become concerned at the standard, since many companies have incurred heavy money costs to rearrange their financial structure in order

to limit a purely book-keeping exposure. Nevertheless, there is still strong opposition from some U.S. companies against changing over to the UK-compatible system, with Du Pont and Caterpillar Tractor in the forefront A key concern is that worldwide management financial control systems, based on dollar accounting, will have to be discarded if profits are to be measured in local currencies. A second consideration is the cost of unscrambling loan and other

arrangements entered into to There is now strong pressure developing for international harmonisation of accounting rules and while there will be a tussle in the U.S., the likelihood is that a common standard will emerge at the end of the day. Furthermore, such a step may herald further changes in the U.S., with the present block on

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PRICE

A Bente up

### action." CEFIC said. Continued from Page 1

like to see all existing closed shops subject themselves to a we'll be drawing up. I think that would be a fair way."

support is precisely the kind of the codes and the forthcoming ing the Bill's stormy passage tice.

He said: "I would very much through the Commons. They are likely to be delighted if the proposal survives its conperiodic review, and also to sultation period, and might as friends. come within, as it were, the a result be persuaded to take The Polithuro appealed to test of both the new legislation some of the heat off Mr. Prior the population to return to and the code of practice that as far as future legislation is concerned.

While the application of the The idea of subjecting exist- new shop code is somewhat ing closed shops to a test of hazy. Mr. Prior hopes that both reform Conservative right- Act will influence industrial

lable to Mr. James Callaghan, move would be reversed once Continued from Page 1

He might therefore not fight

### Strikes in Poland

situation there "could awaken authorities move to raise some among

work, It promised that a Government commission would be set up to look into workers'

Since the start of July there Conservative right- Act will influence industrial have been more than 50 stop- out of the present wave of were pressing for dur- relations behaviour and prac- pages throughout Poland. They strikes Zloty 4bn have been set were originally provoked by the aside.

Poland's meat prices. But the authorities, aware

struck in protest against foodprice increases, an attempt to previous leadership, decided to negotiat ea return to work with shop-floor delegates this time.

that in 1970, when workers

For wage settlements arising

# Index-linked gilts plan studied

THE GOVERNMENT is re- savers. considering issuing index-linked gilt-edged stocks which would porters in the Treasury for an protect investors against infla-extension of the present "granny tion and offer a small real bonds." At present retired rate of return. A decision will people may buy index-linked probably not be taken until after National Savings Certificates the summer holidays. National Savings Certificates worth up to £1,200 but these

some time between the Treasury This would be separate from the and the Bank of England but the idea is now being more actively examined by Ministers. The discussion is mainly concerned with the practical implications for monetary manage-

These questions will have to be faced before even experiment to test investor sentiment is considered. While such indexwould be stocks primarily aimed at institutions such as pension funds, there might be a scheme for small

There are known to be sup-Talks have been going on for could be offered to everyone. present save-as-you-earn indexlinked scheme.

Sir Geoffrey Howe, the Chancellor, appears to have an open mind about the idea. At a recent meeting of the Conser- investment for their vast vative backbench finance surpluses. was committee he noncommittal, but did not appear Westminster have been encouraged to believe it may

be tried. The **Indications** 

Whitehall are that several major obstacles remain to getting such a radical new scheme of the ground. Even supporters of the idea concede that the odds are not yet in favour of change. There is particular concern

about whether an index-linked stock might represent an open invitation to foreign money to flood into London even more than recently. The oil-producing states are especially keen to find any inflation-proofed

The Bank of England has been particularly cautious. It to have ruled it out altogether, has said publicly that the Supporters of the idea at question of issuing index-linked gilts should be considered not in isolation but in relation to its wider social and economic implications.

Mr. Eddie George, an assistant director of the Bank, told the Treasury and Civil Service Committee of the Commons this month that it was by no means clear indexed gilt-edgod stocks would provide cheaper depended on the assumptions about the real rate of interest on indexed debt and returns on conventional debt as well as on the speed and extent or the fall in inflation. Such factors persuaded Mr. Denis Healey the former Chancellor, to turn down proposals for issuing indexed stock.

The idea may come up again Mr. Gordon when Richardson, the Governor of the England. gives evidence to the Committee as part of its inquiry into monetary policy.

# AUSTRALIA

# The vital link

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